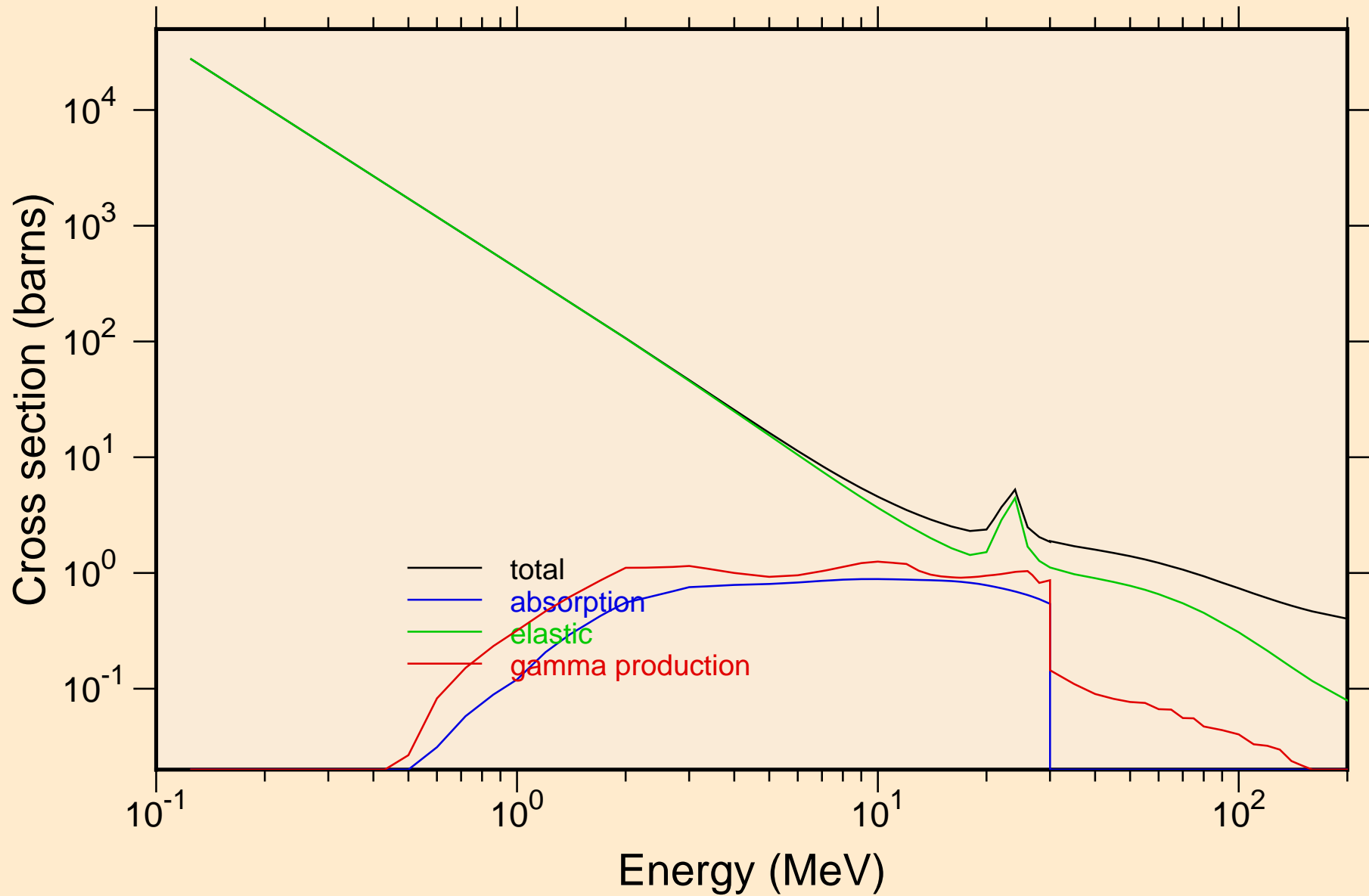
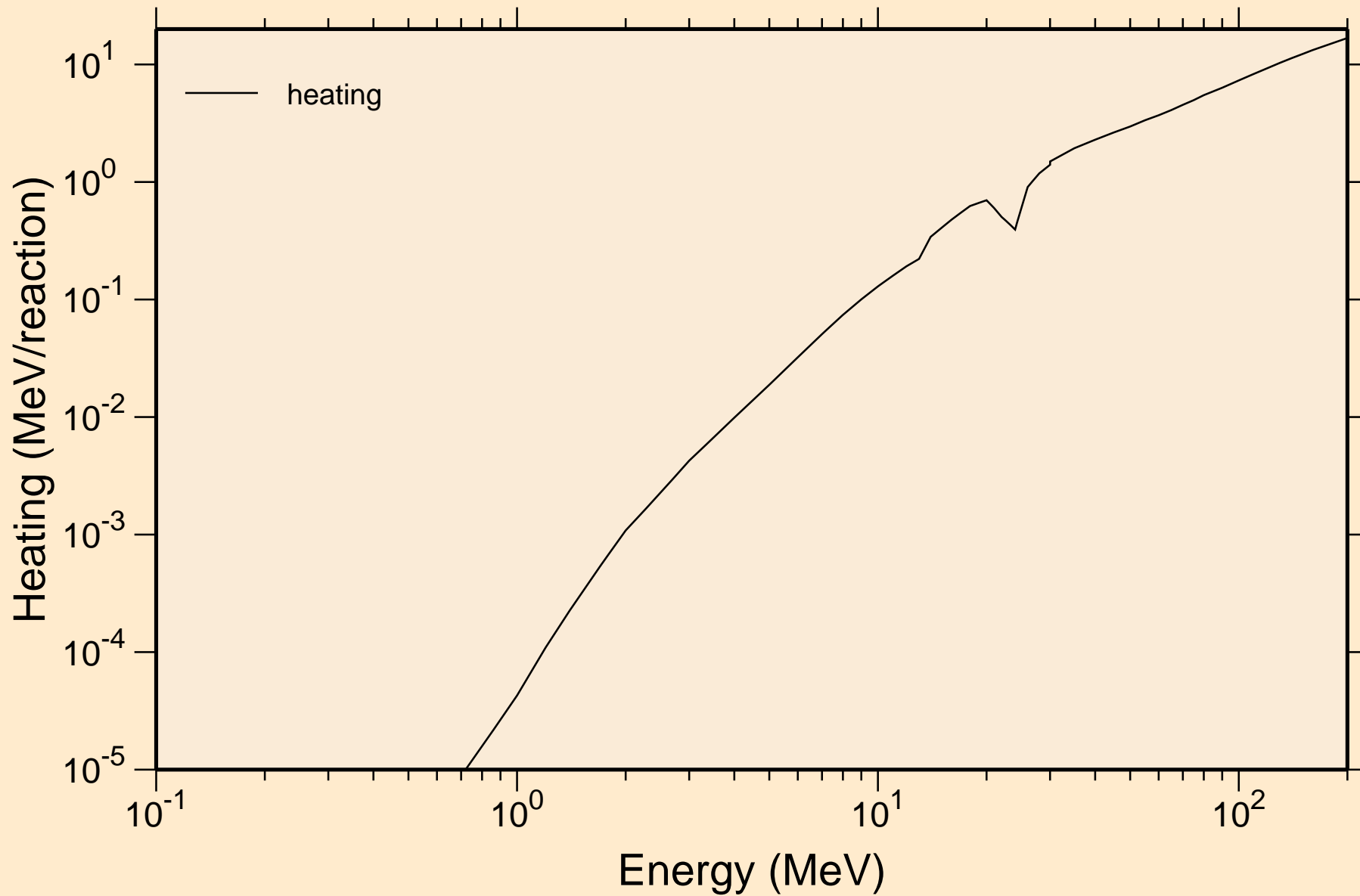


O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections

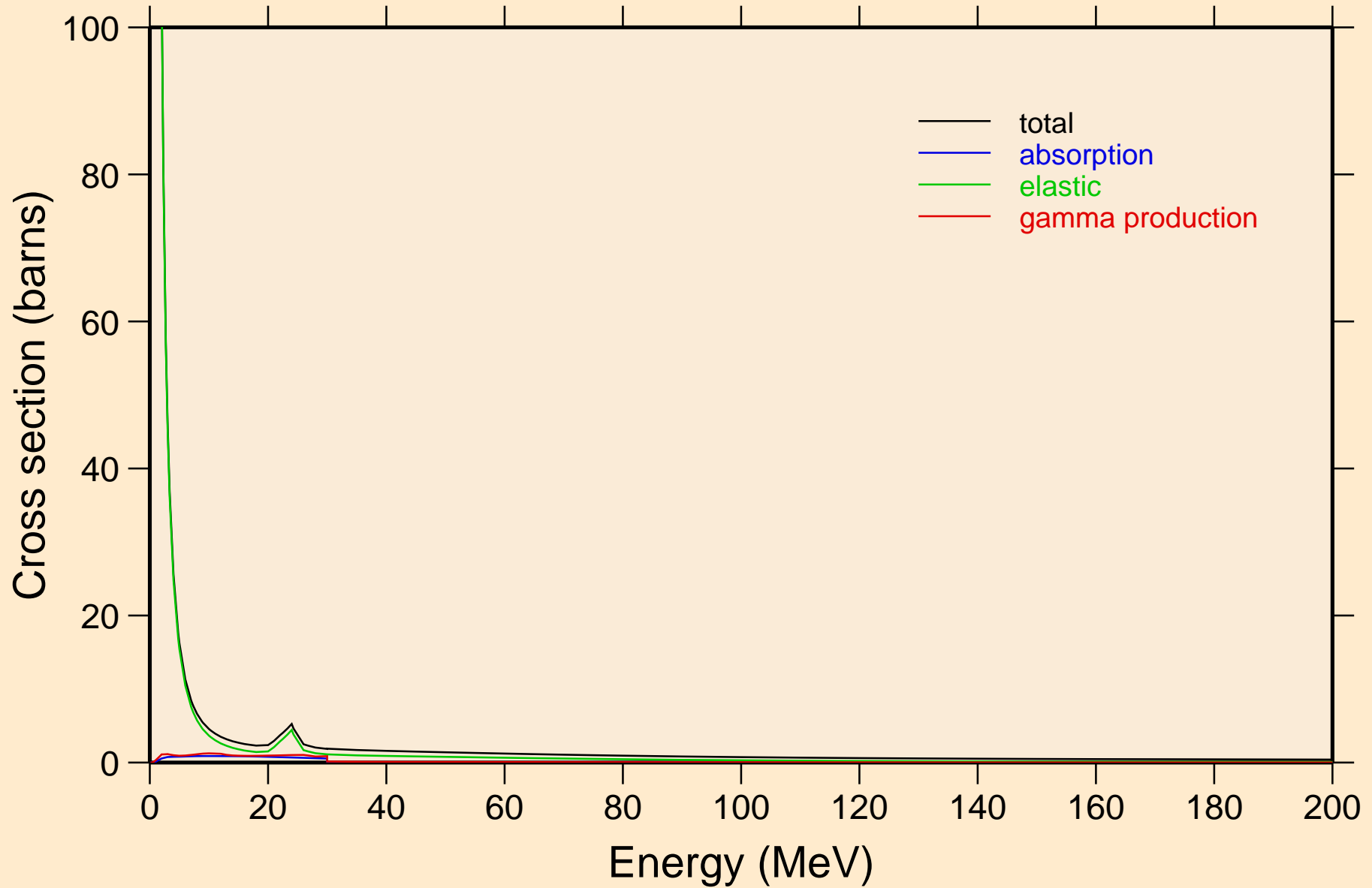


O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



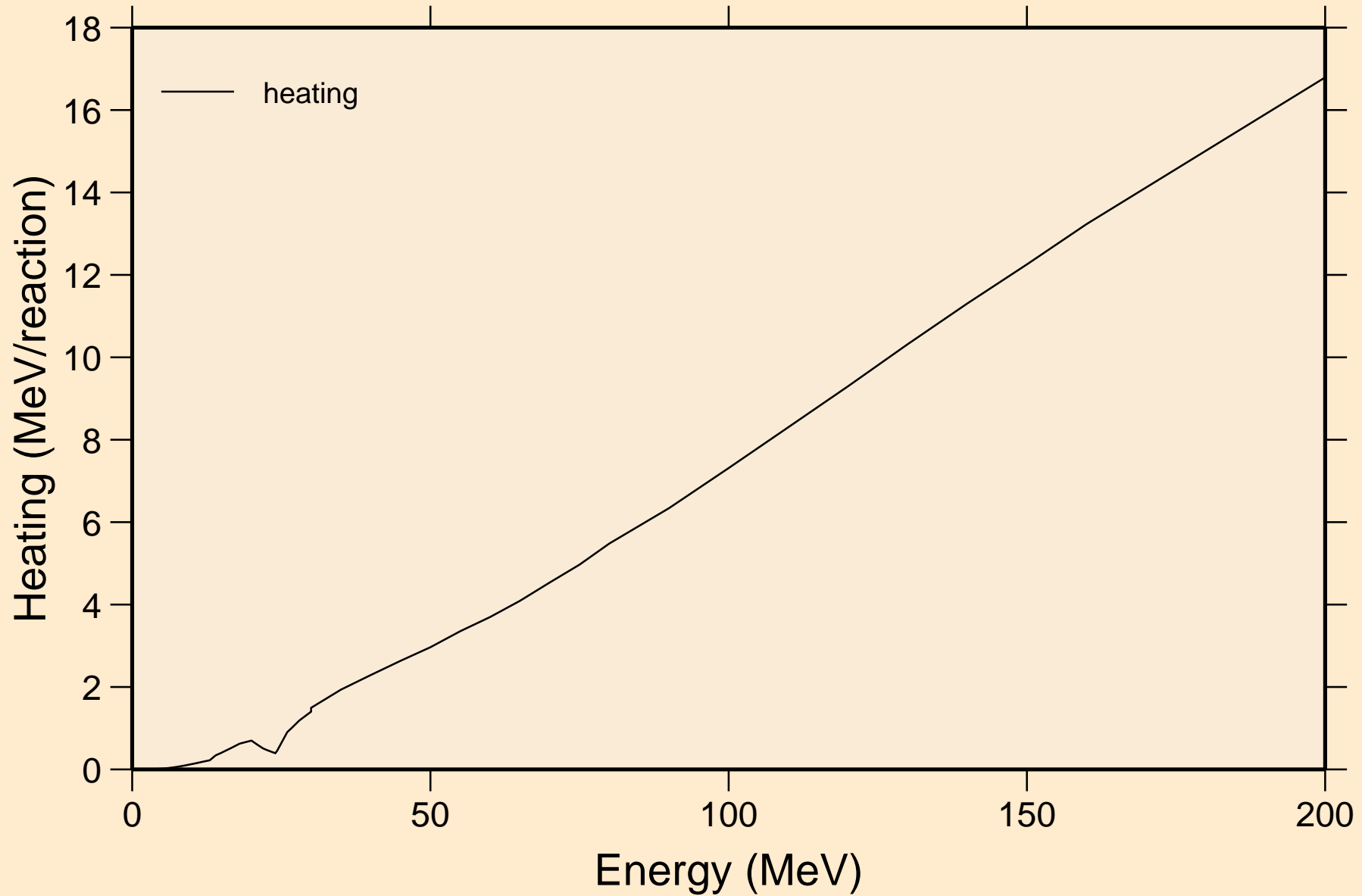
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## Principal cross sections



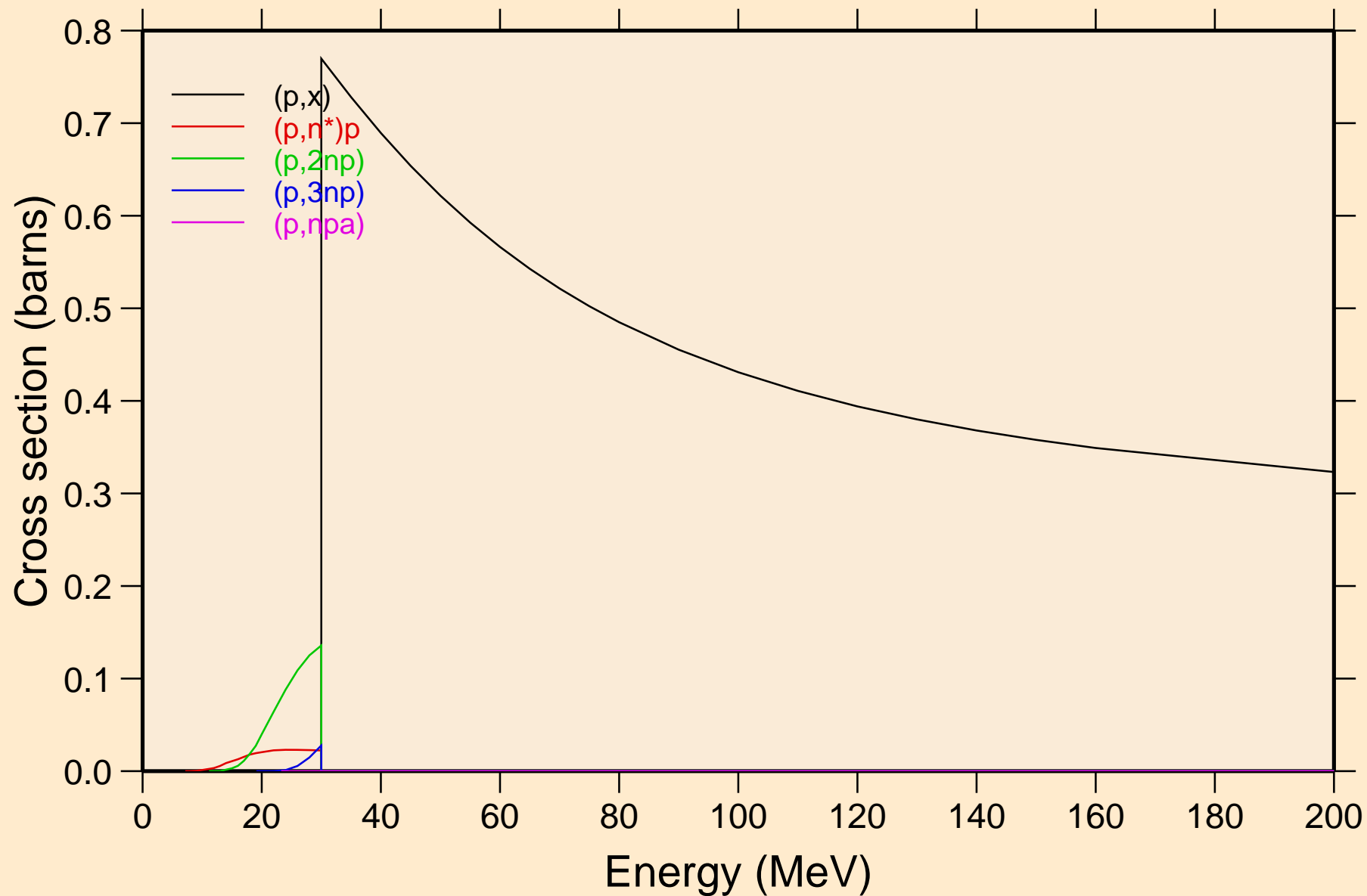
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## Heating

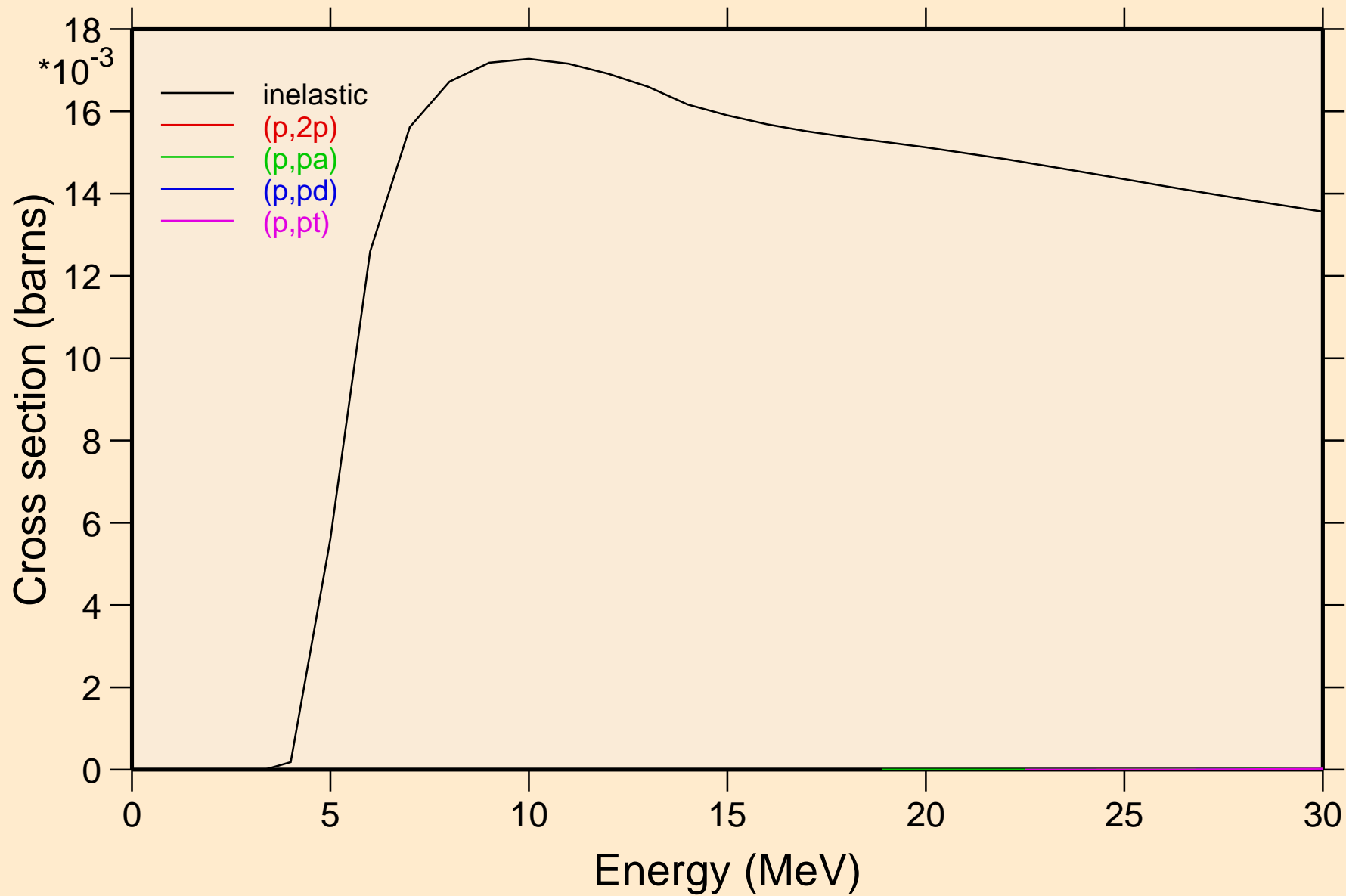


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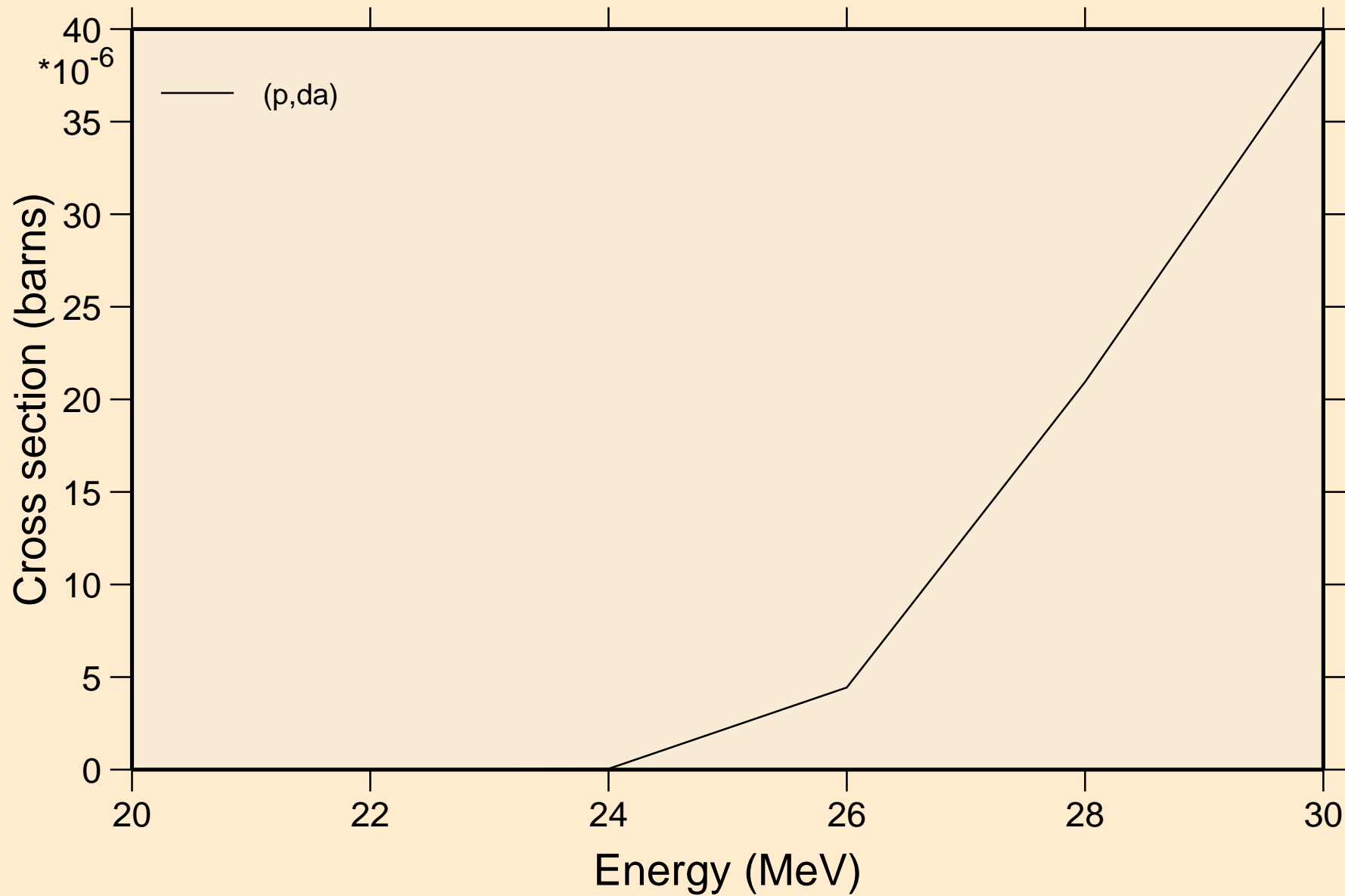
## Threshold reactions



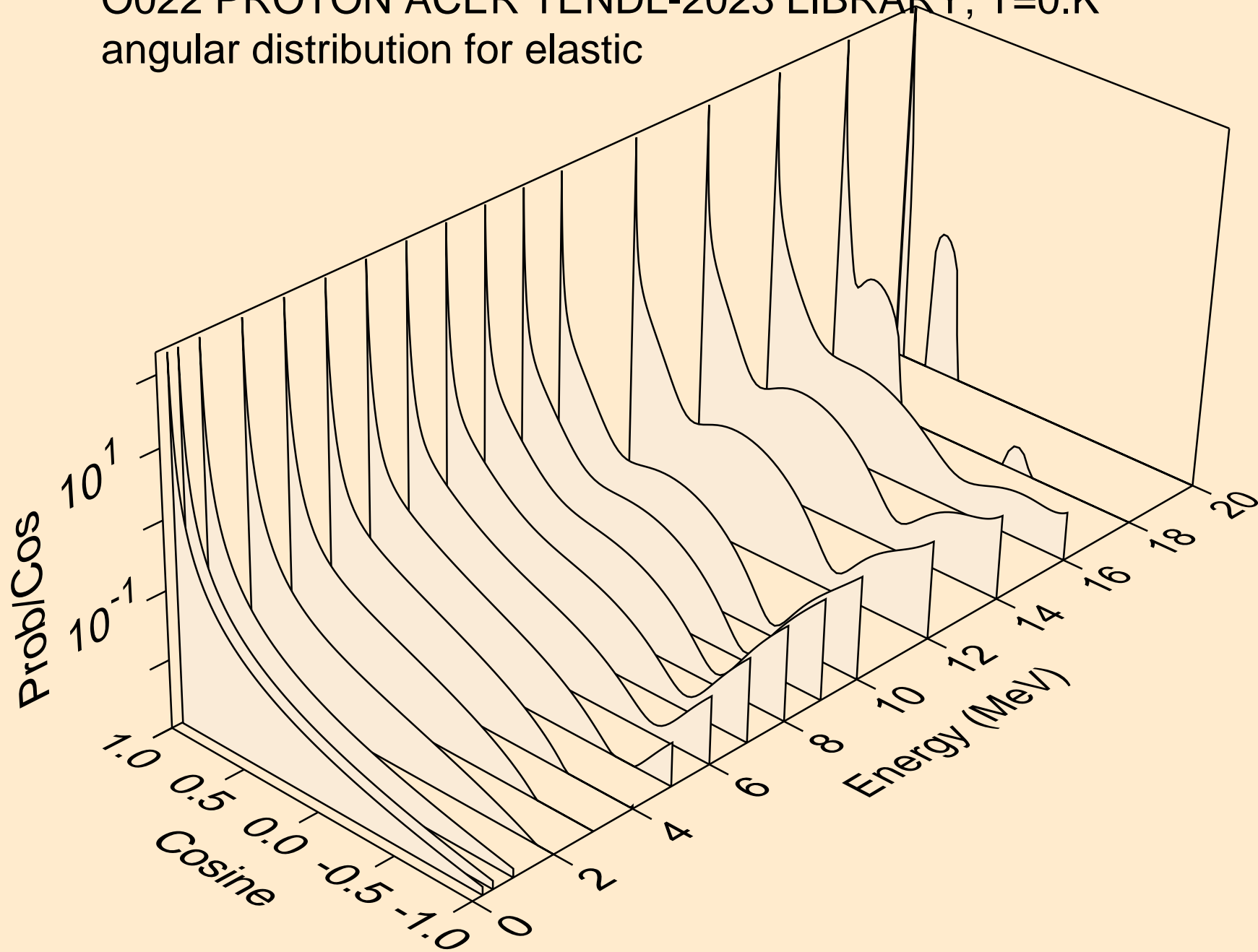
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

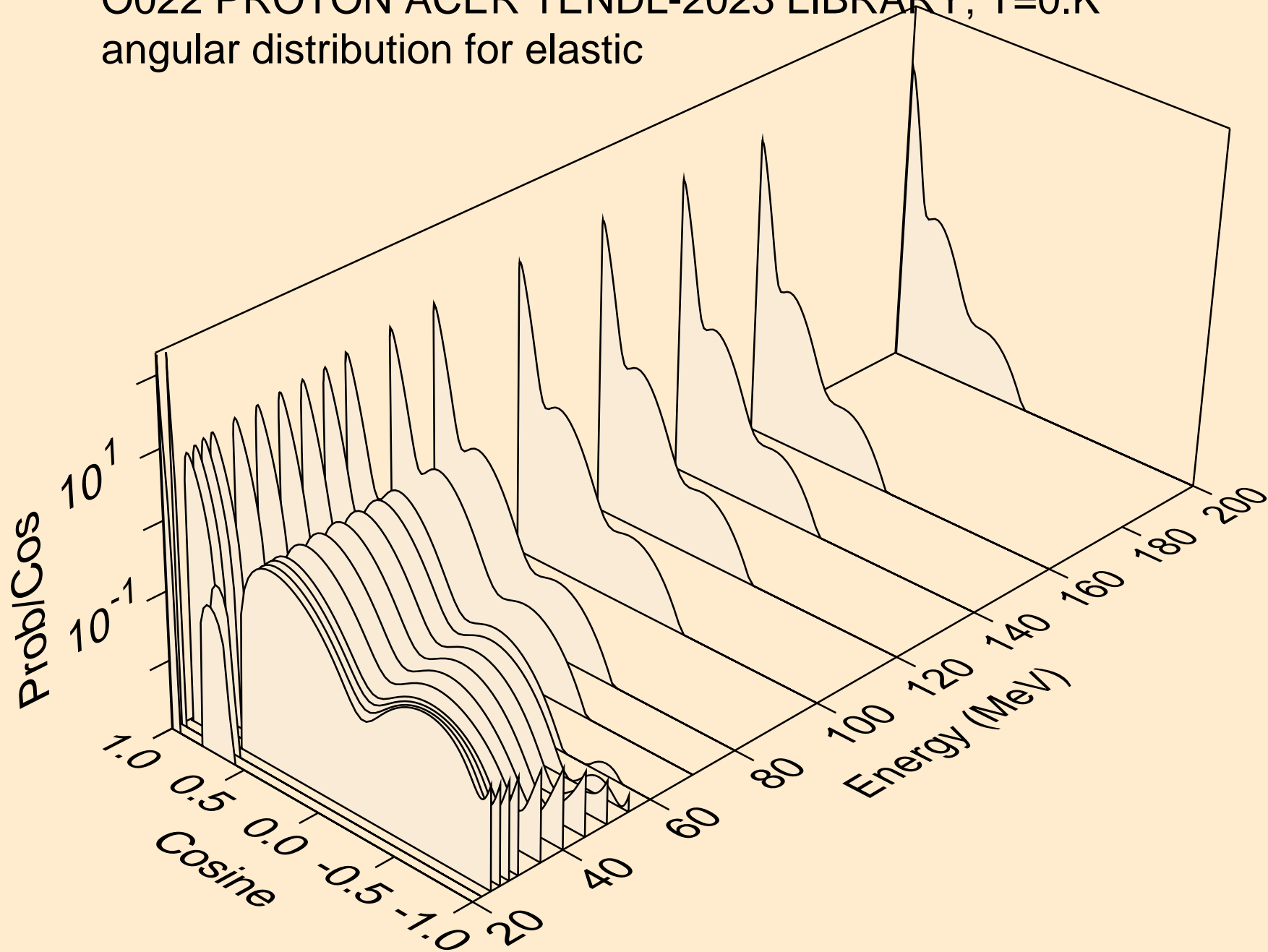


O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

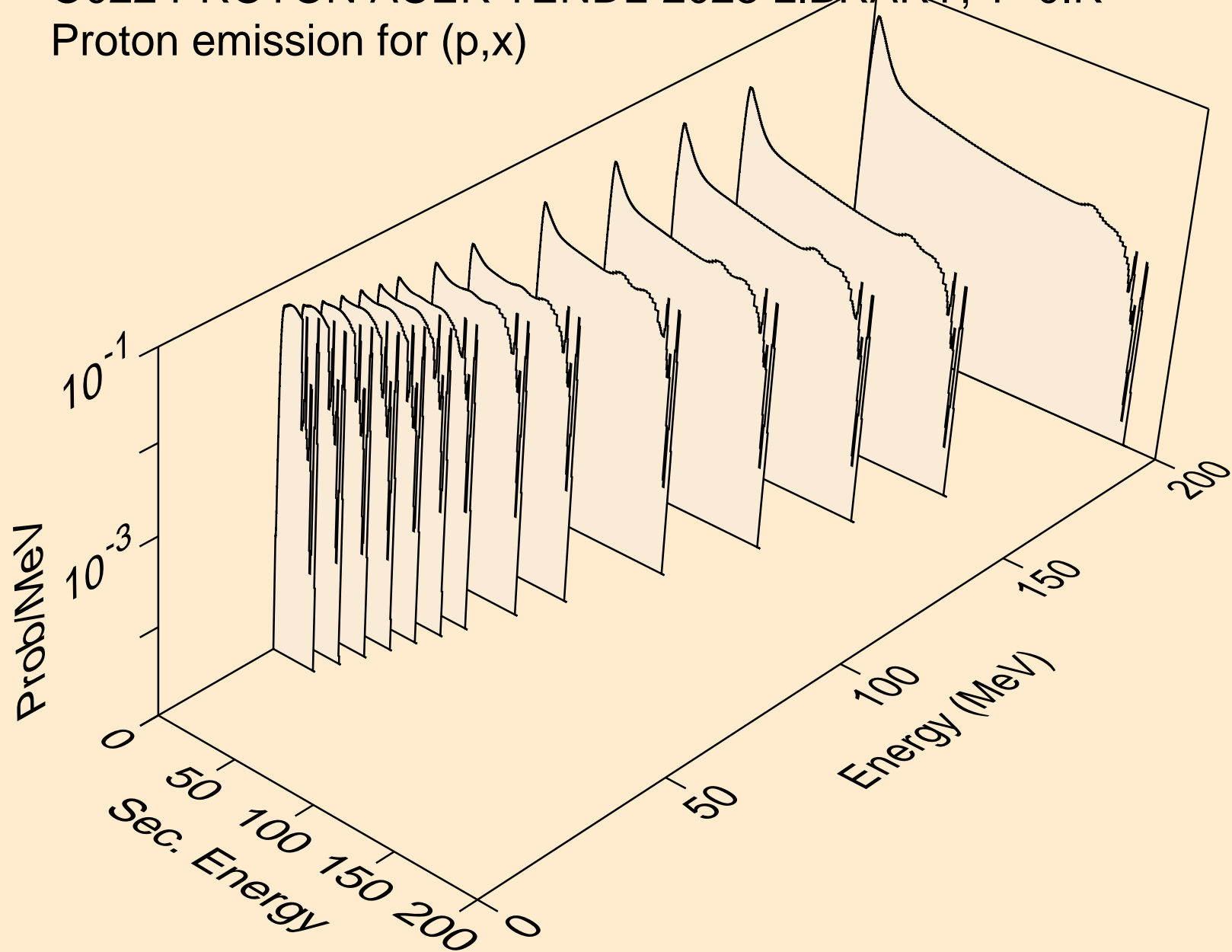




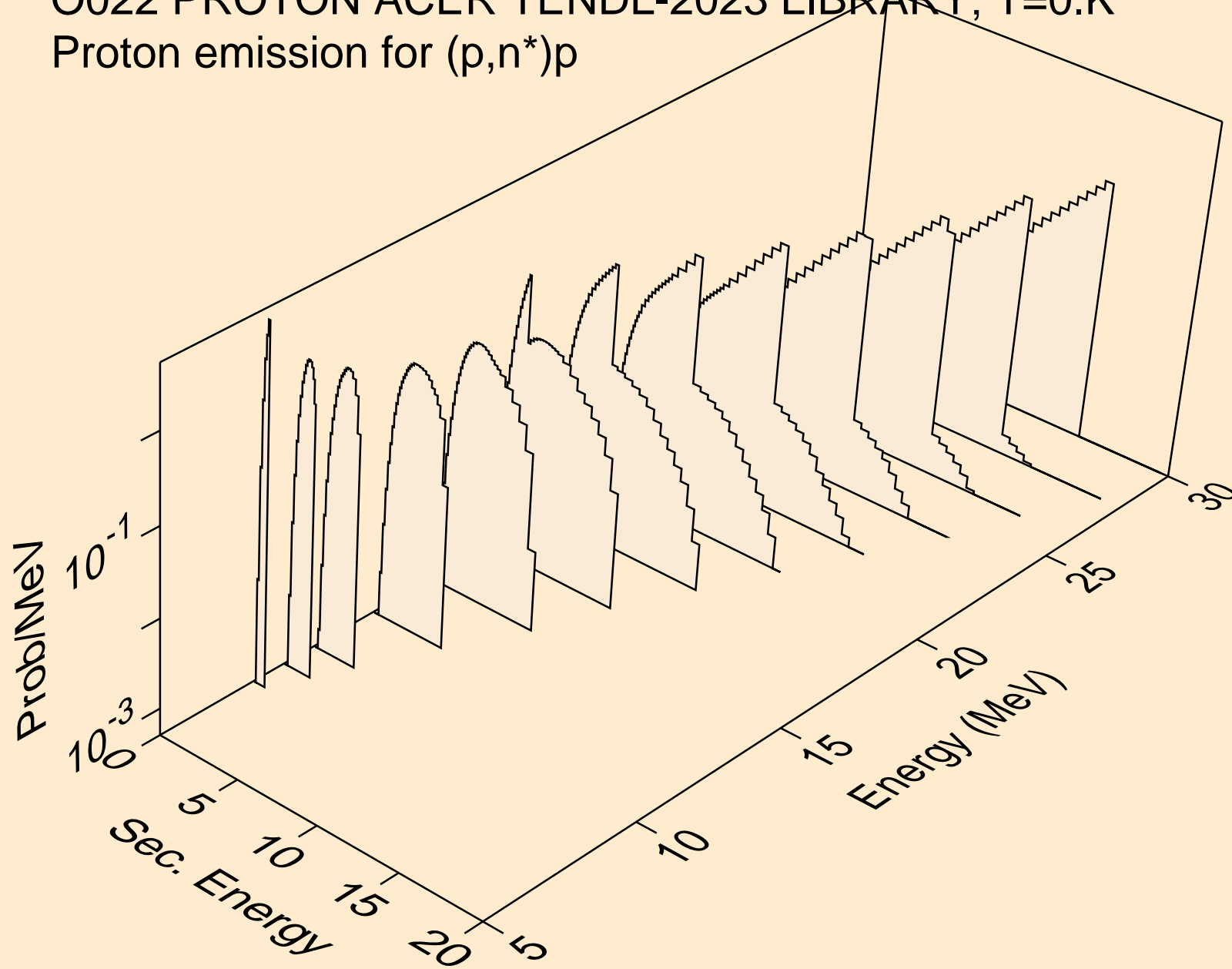
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angular distribution for elastic



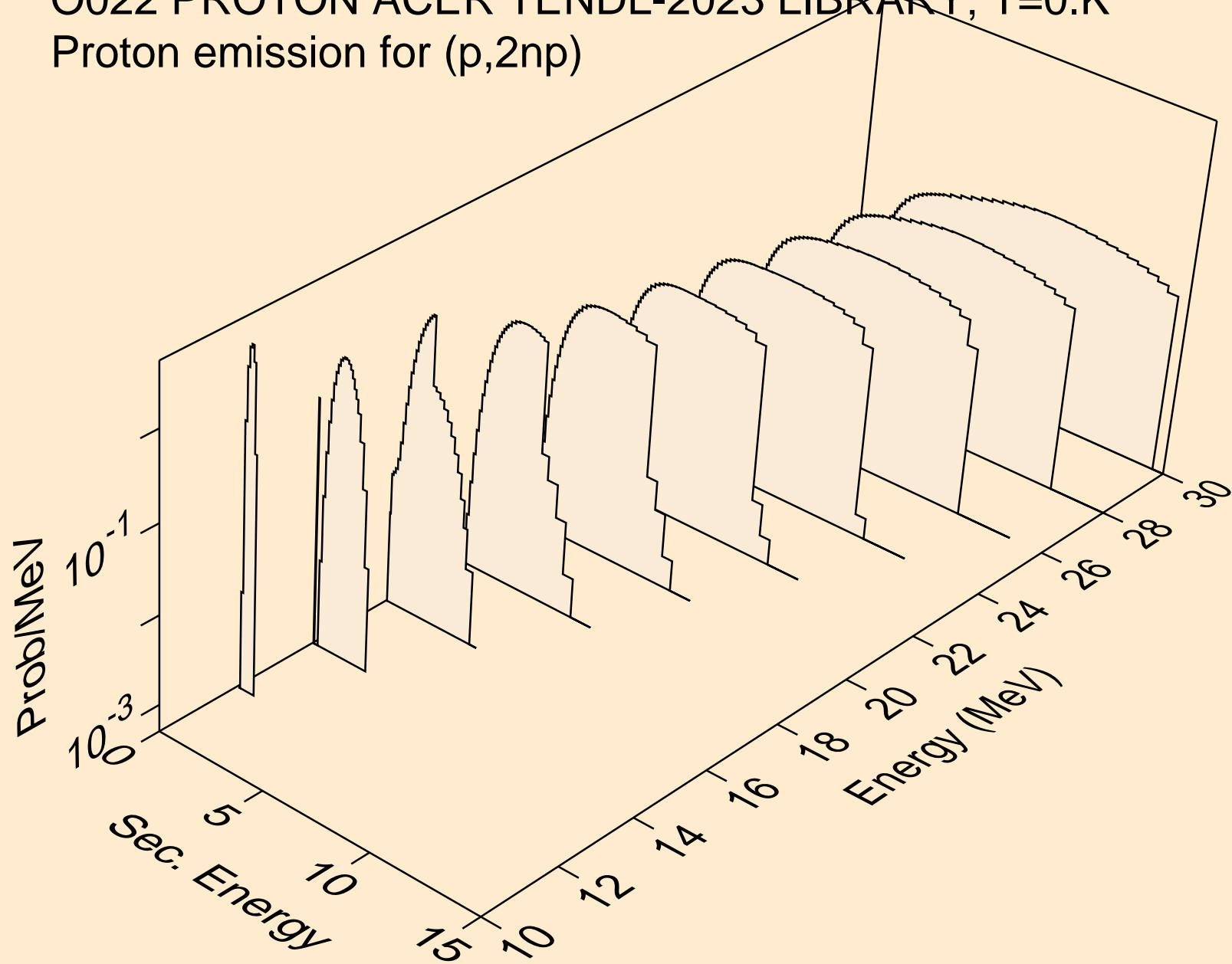
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



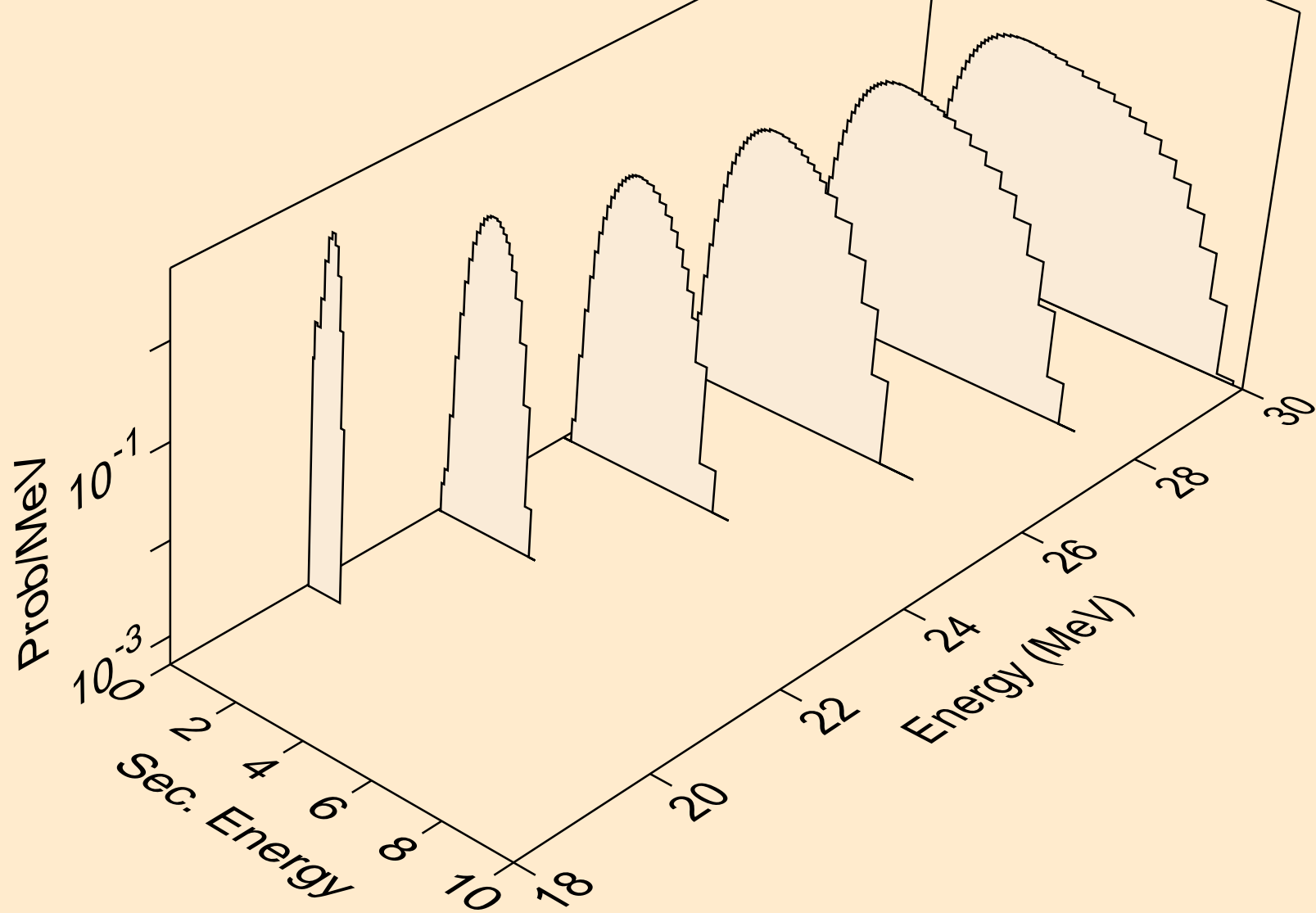
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



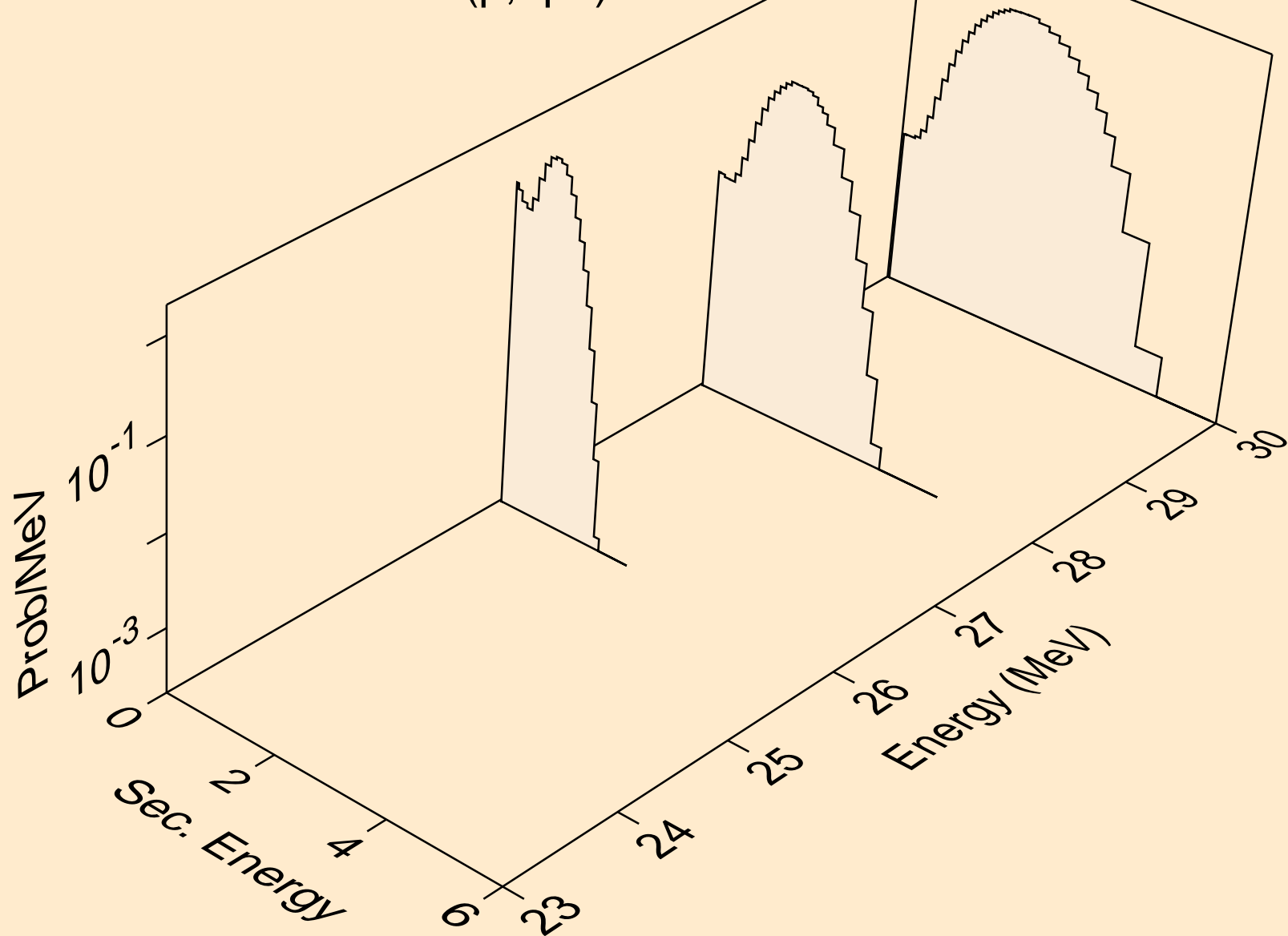
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Proton emission for (p,2np)



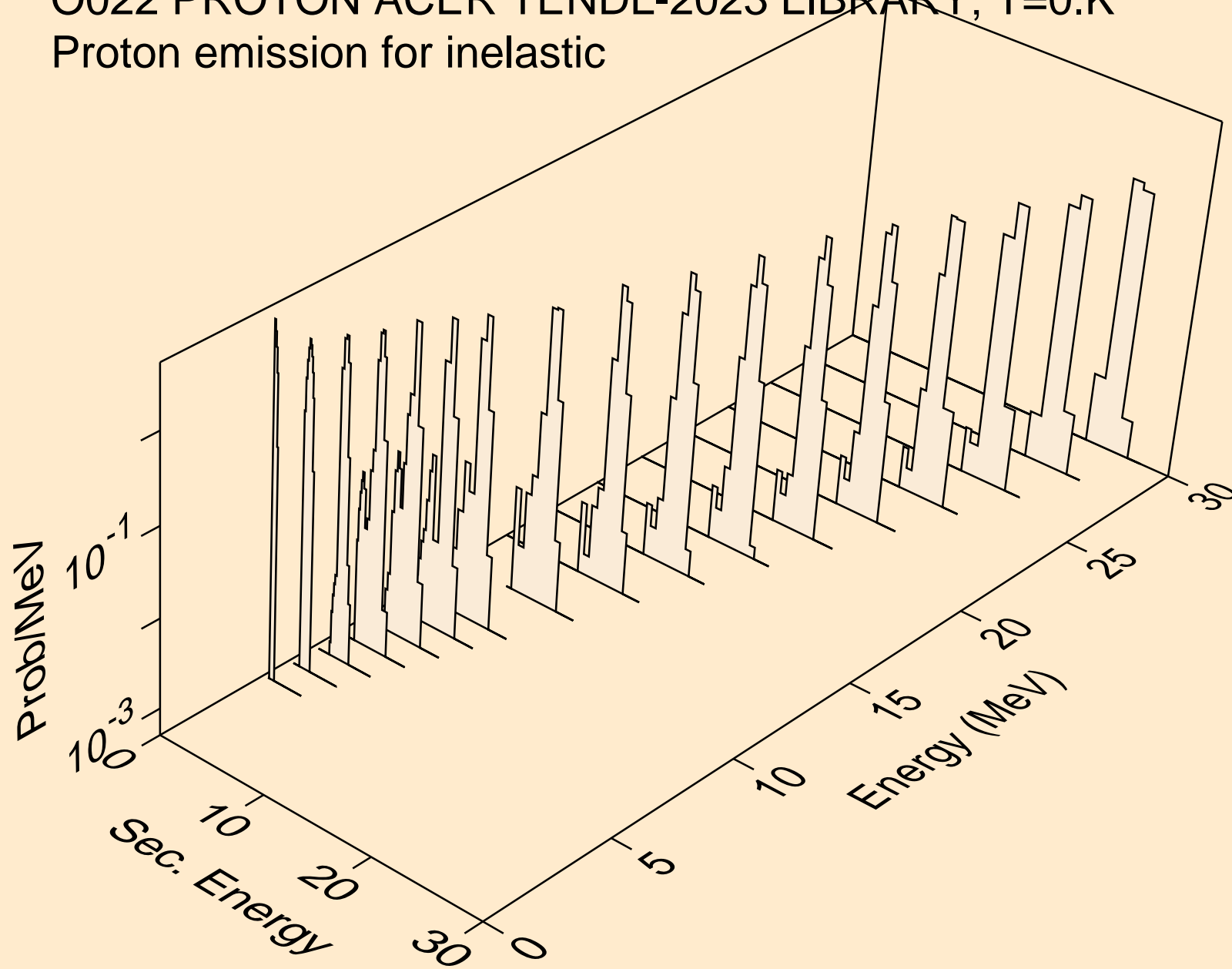
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Proton emission for (p,3np)



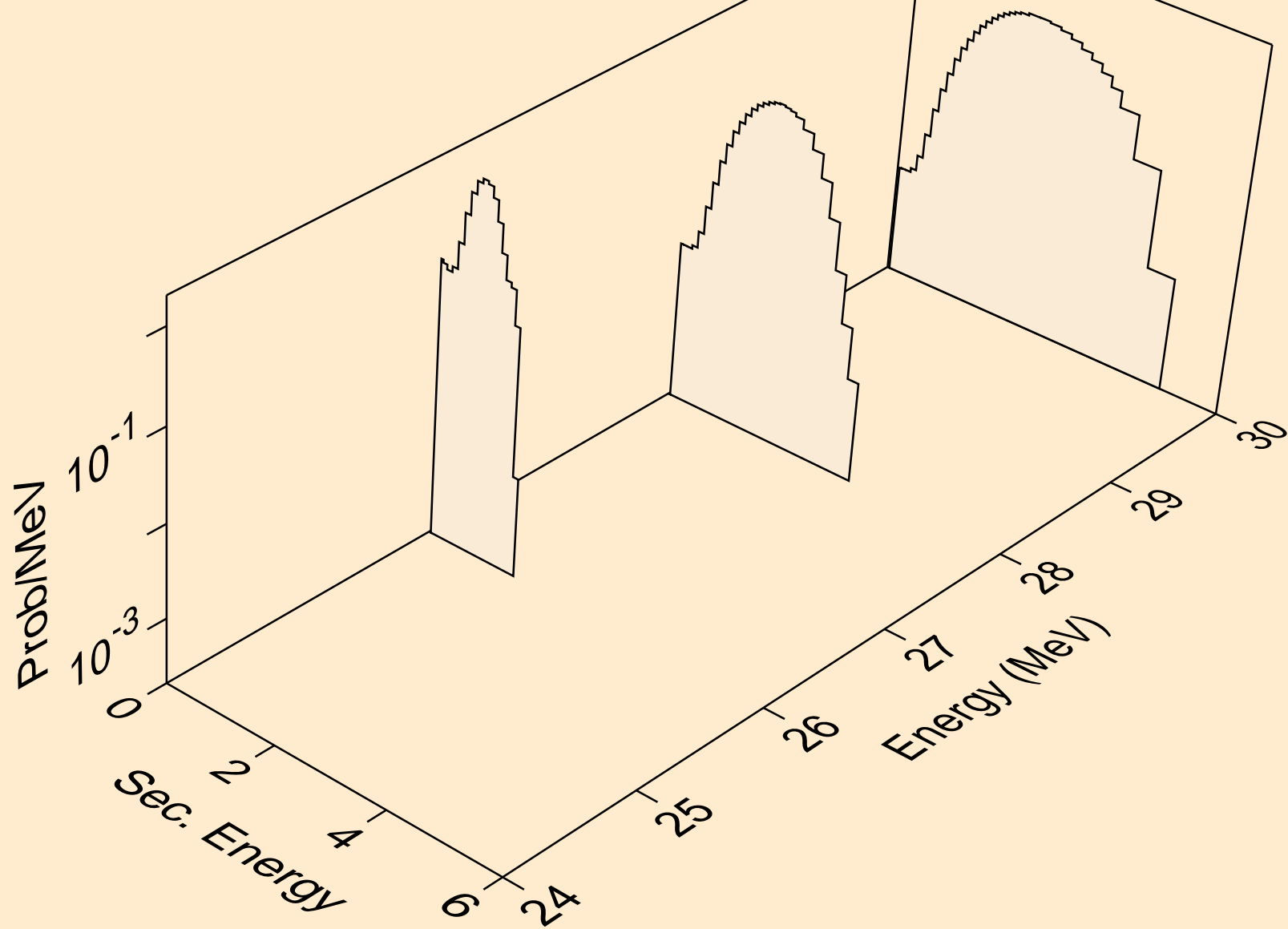
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

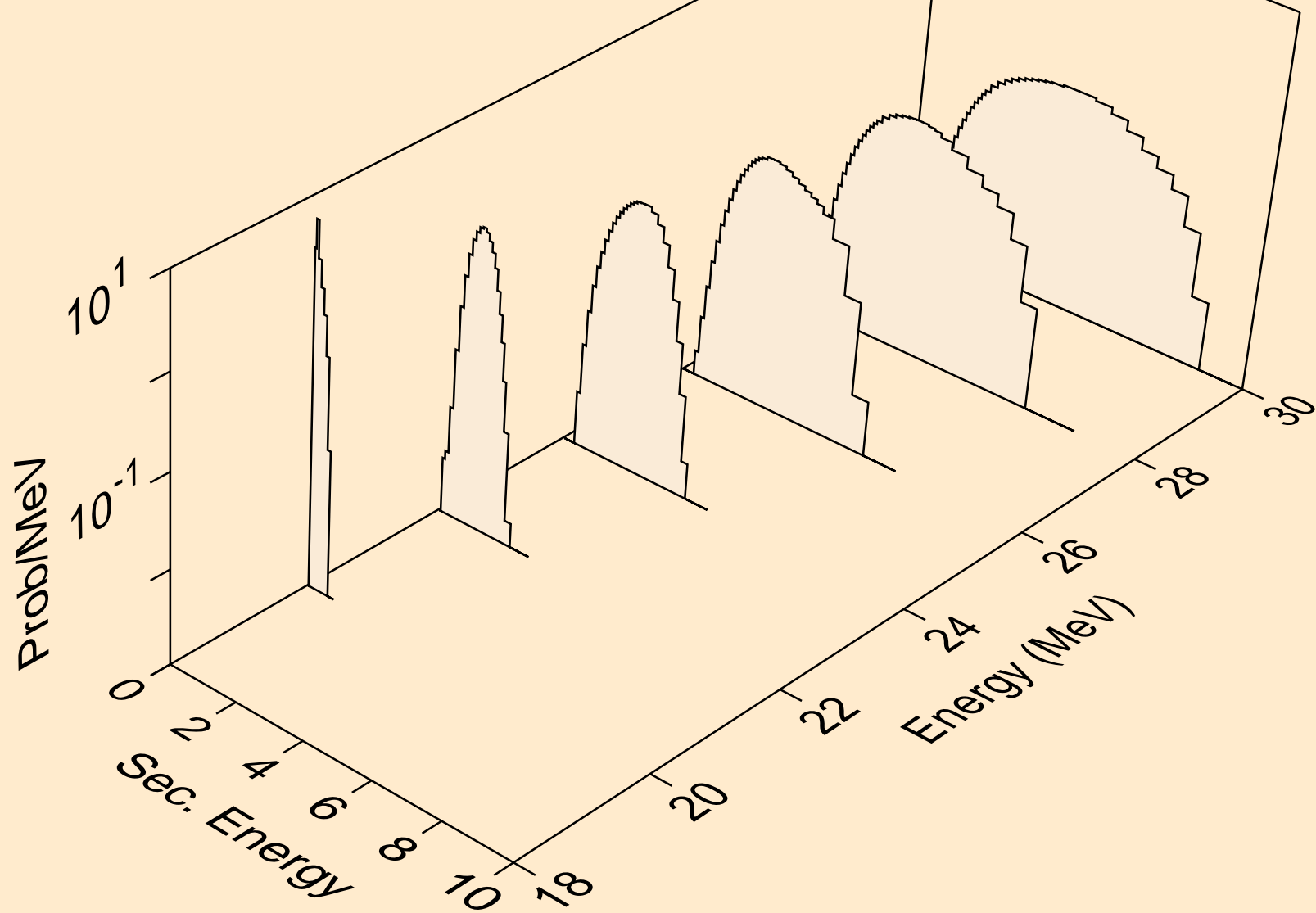


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Proton emission for (p,2p)

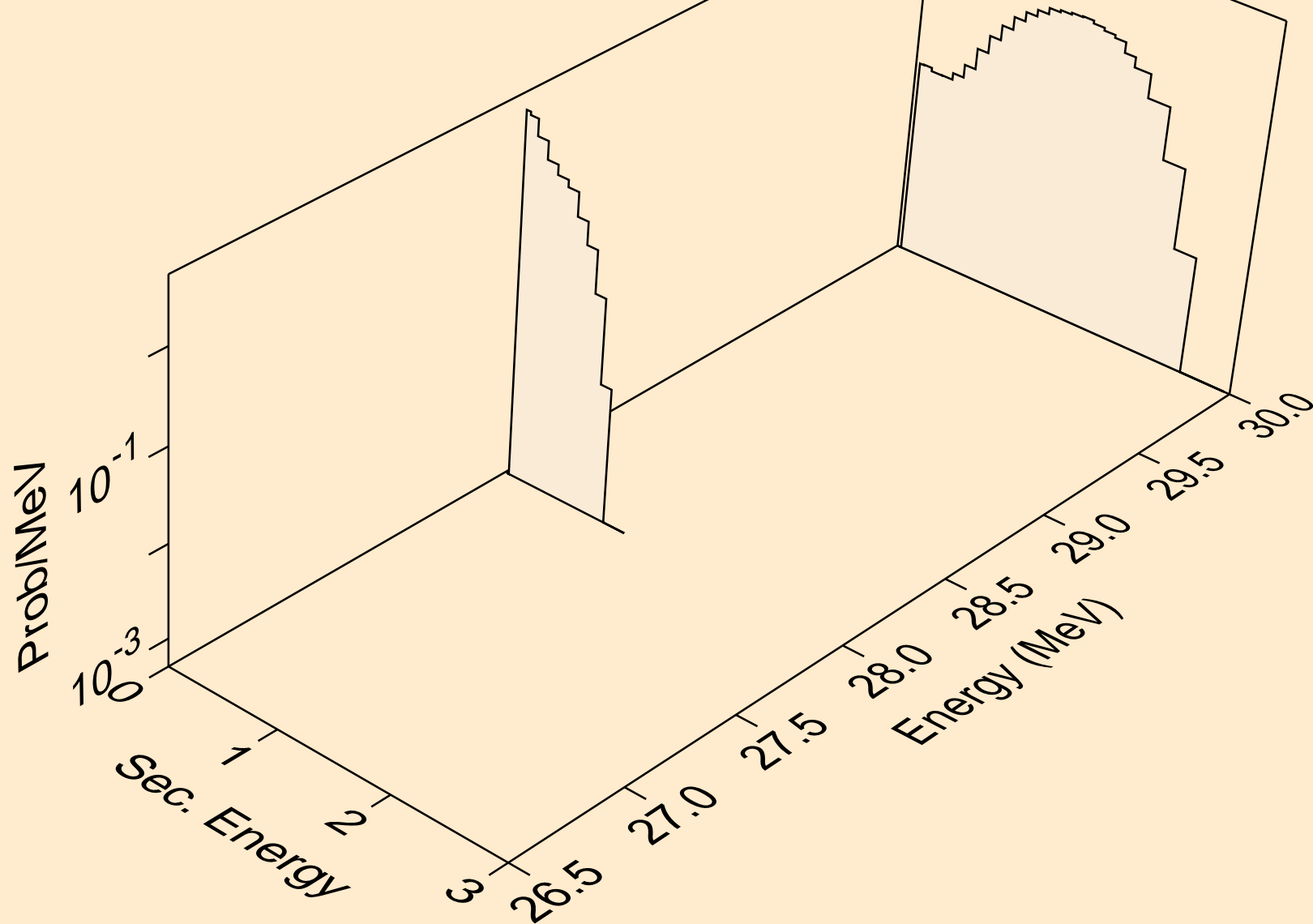




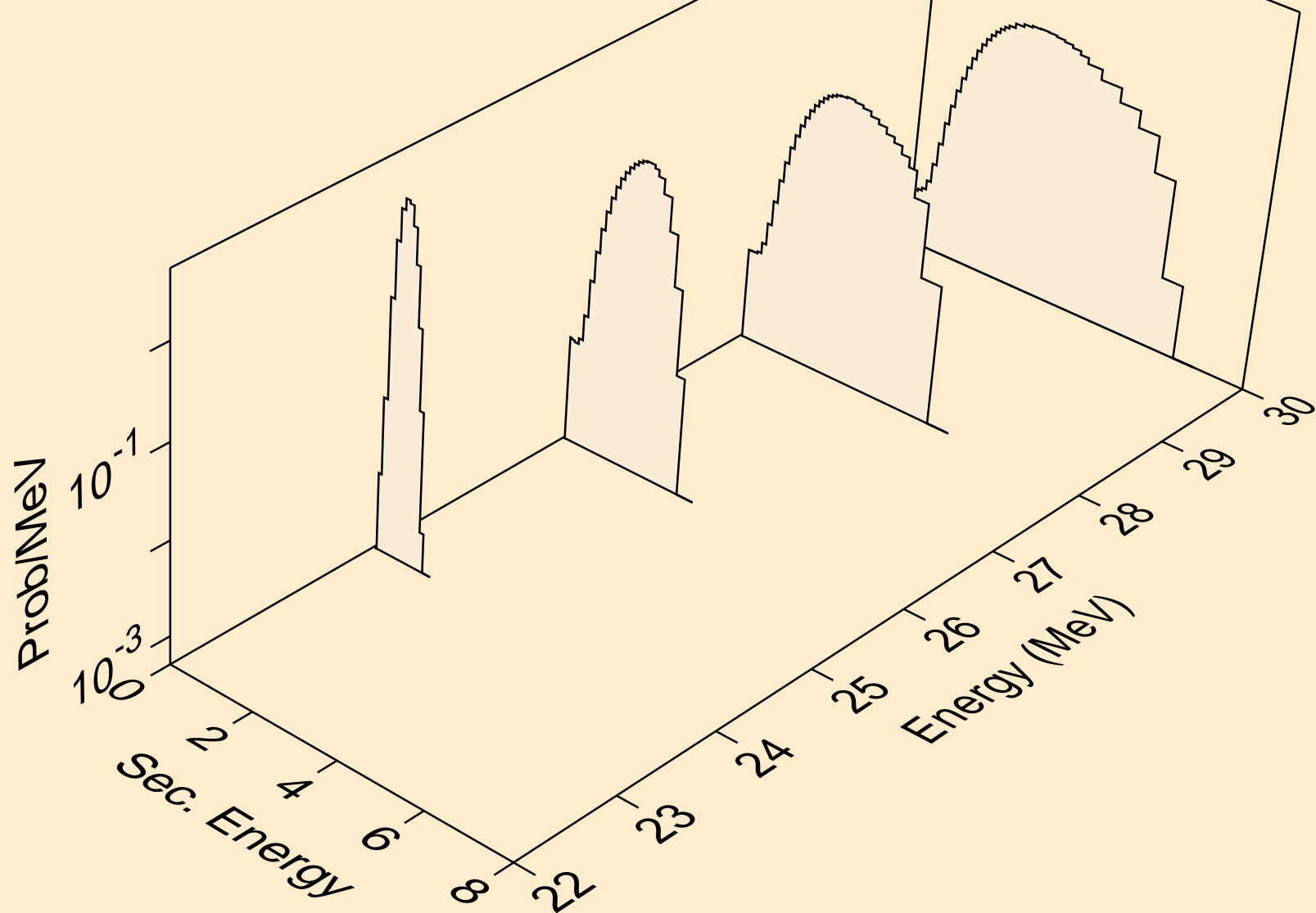
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Proton emission for (p,pa)



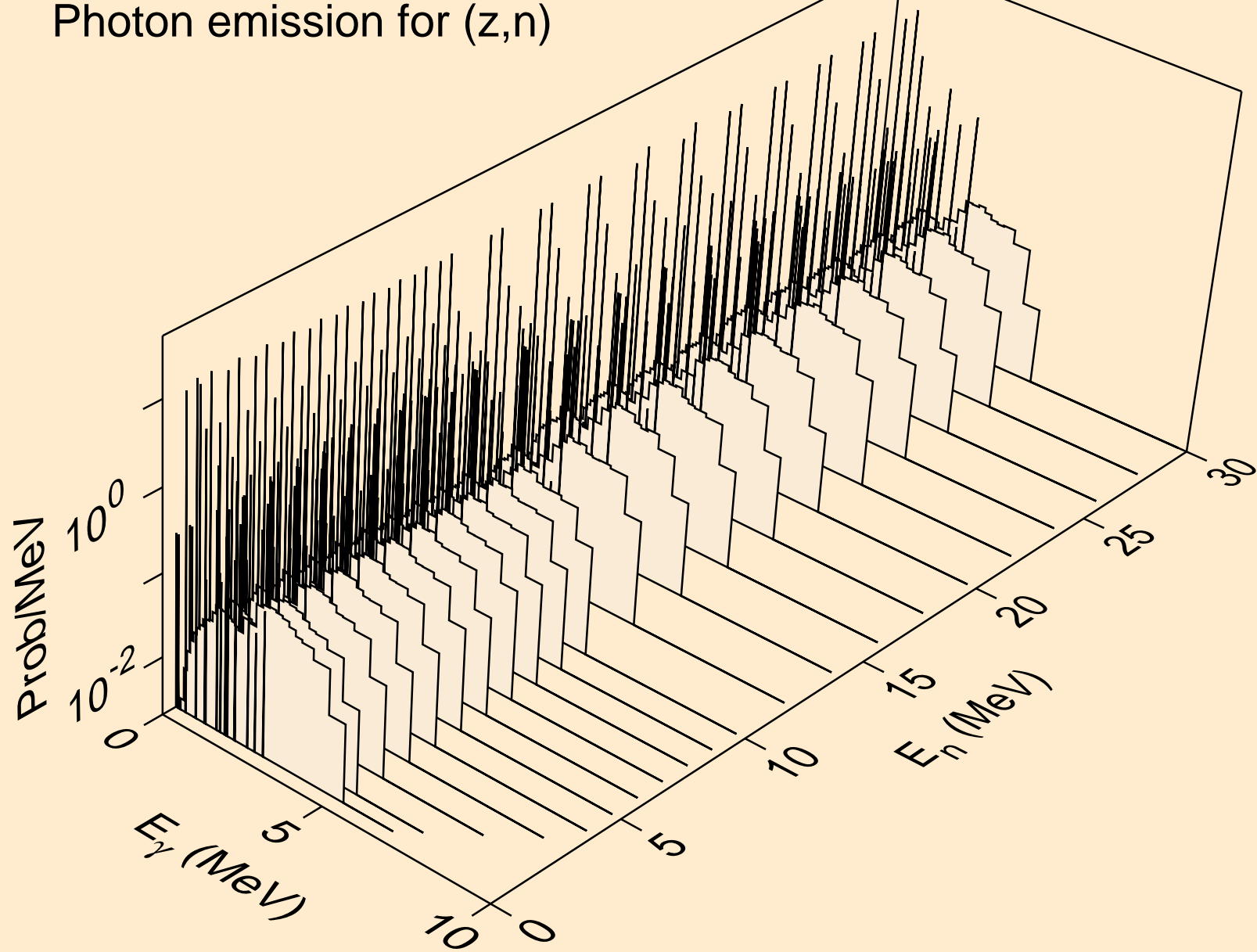
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Proton emission for (p,pd)



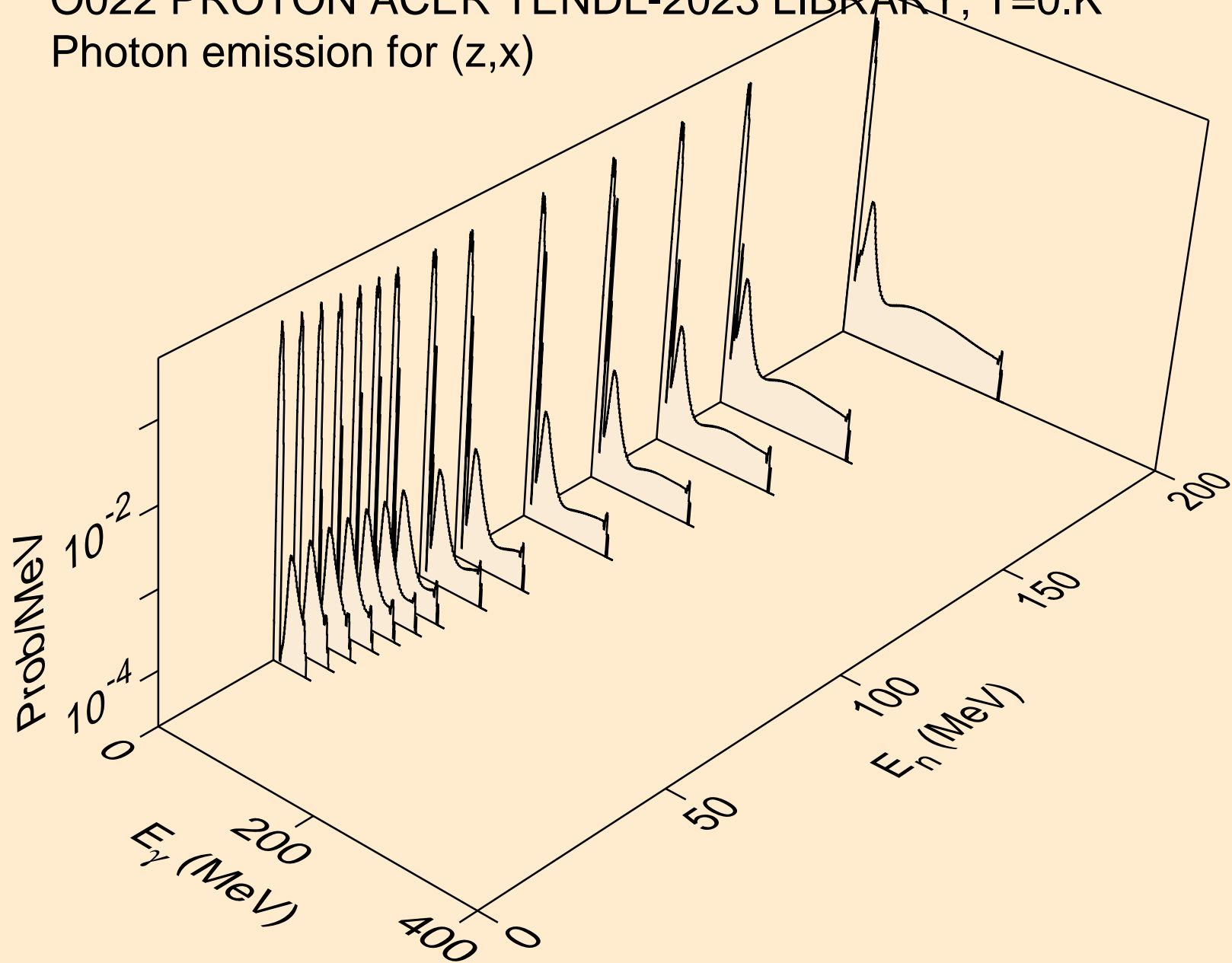
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Proton emission for (p,pt)



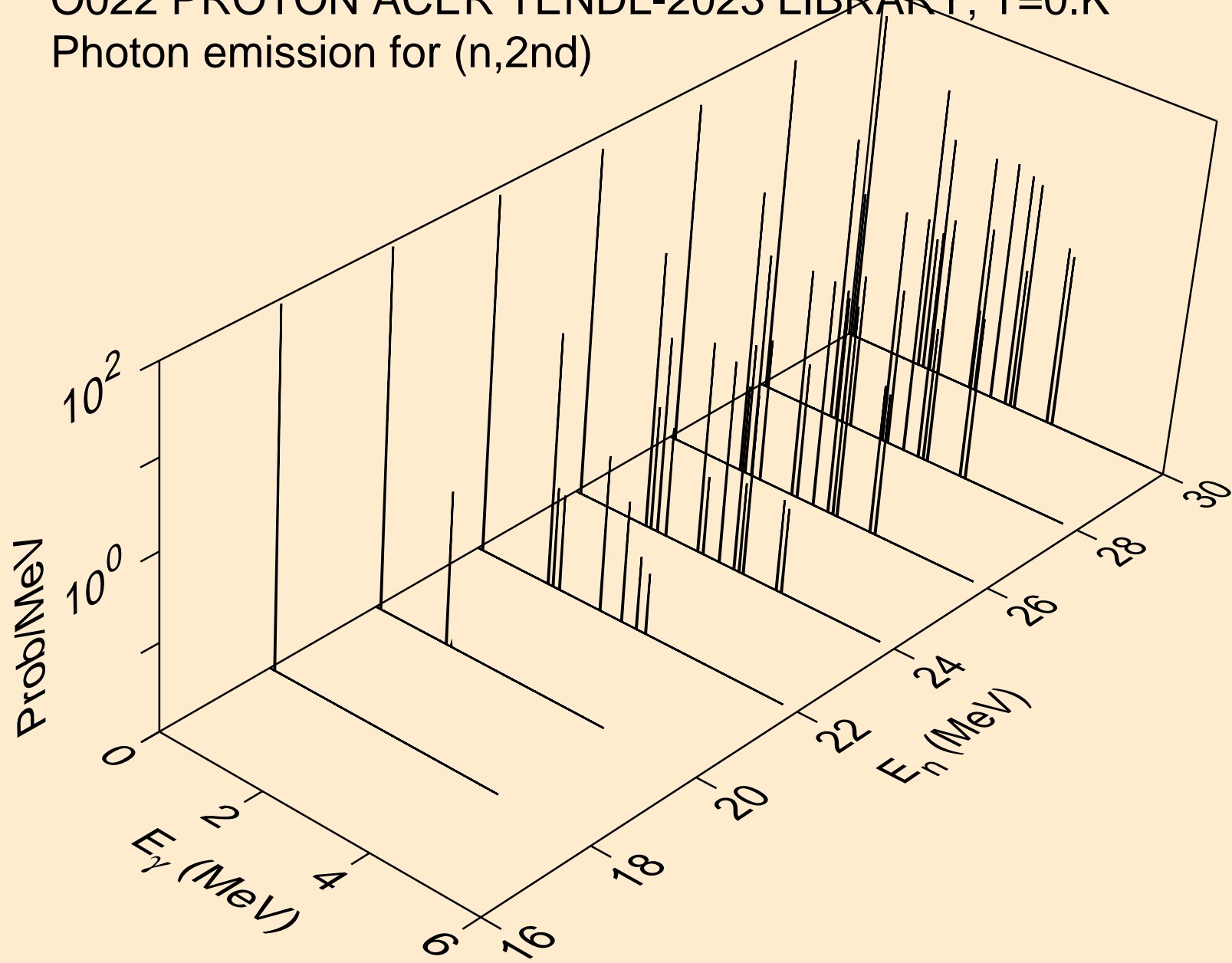
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Photon emission for (z,n)



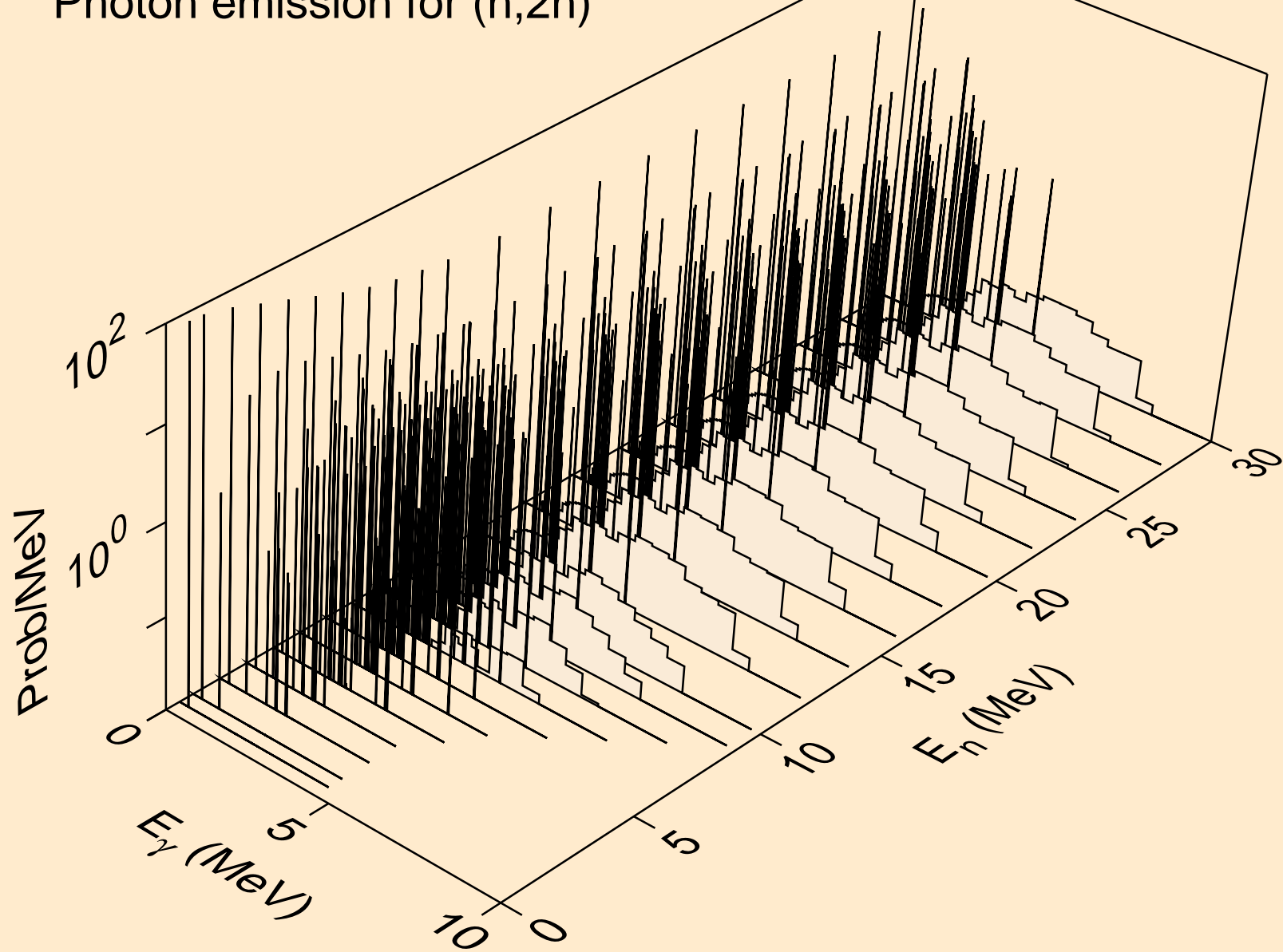
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Photon emission for (z,x)



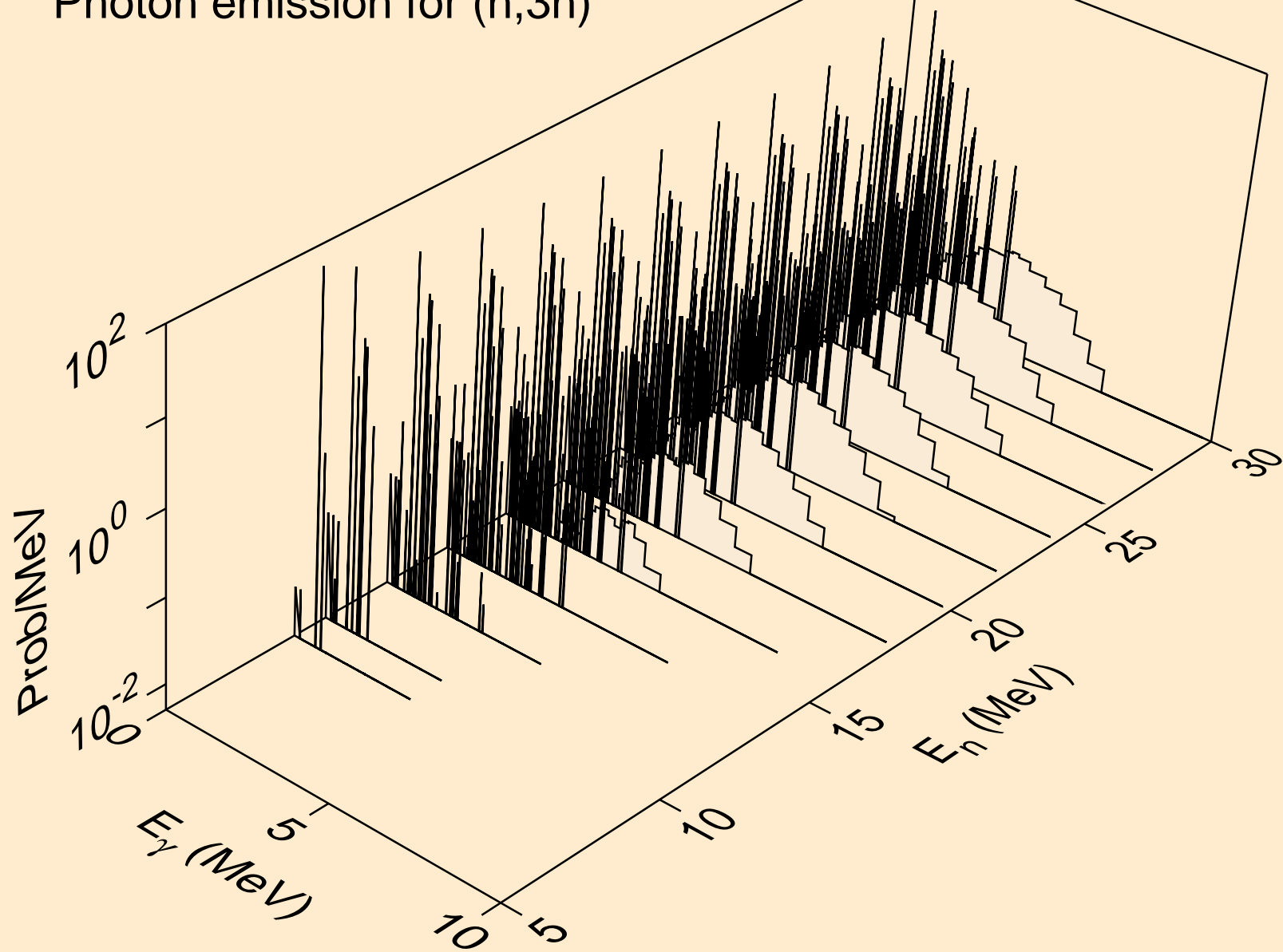
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

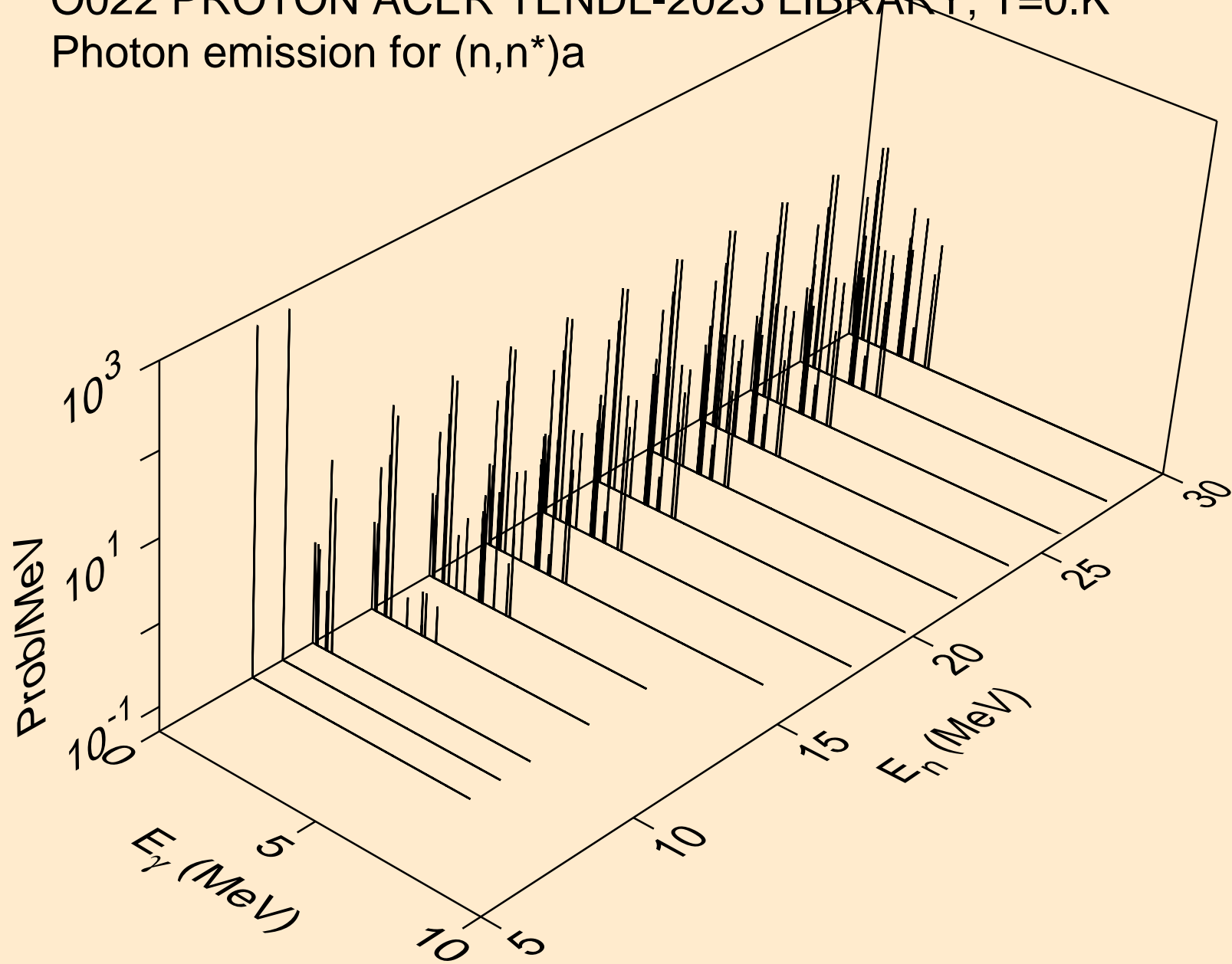


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Photon emission for (n,3n)

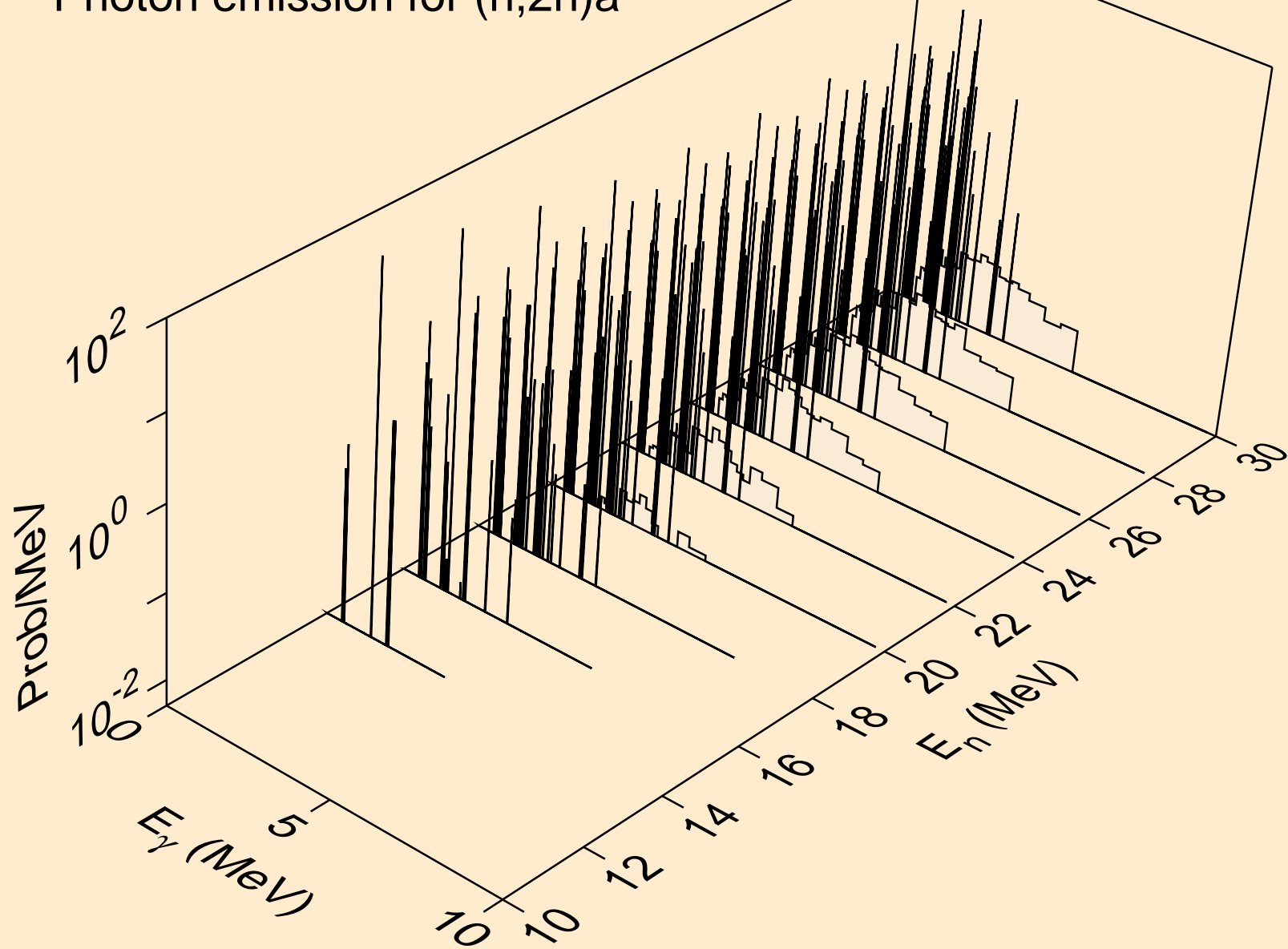




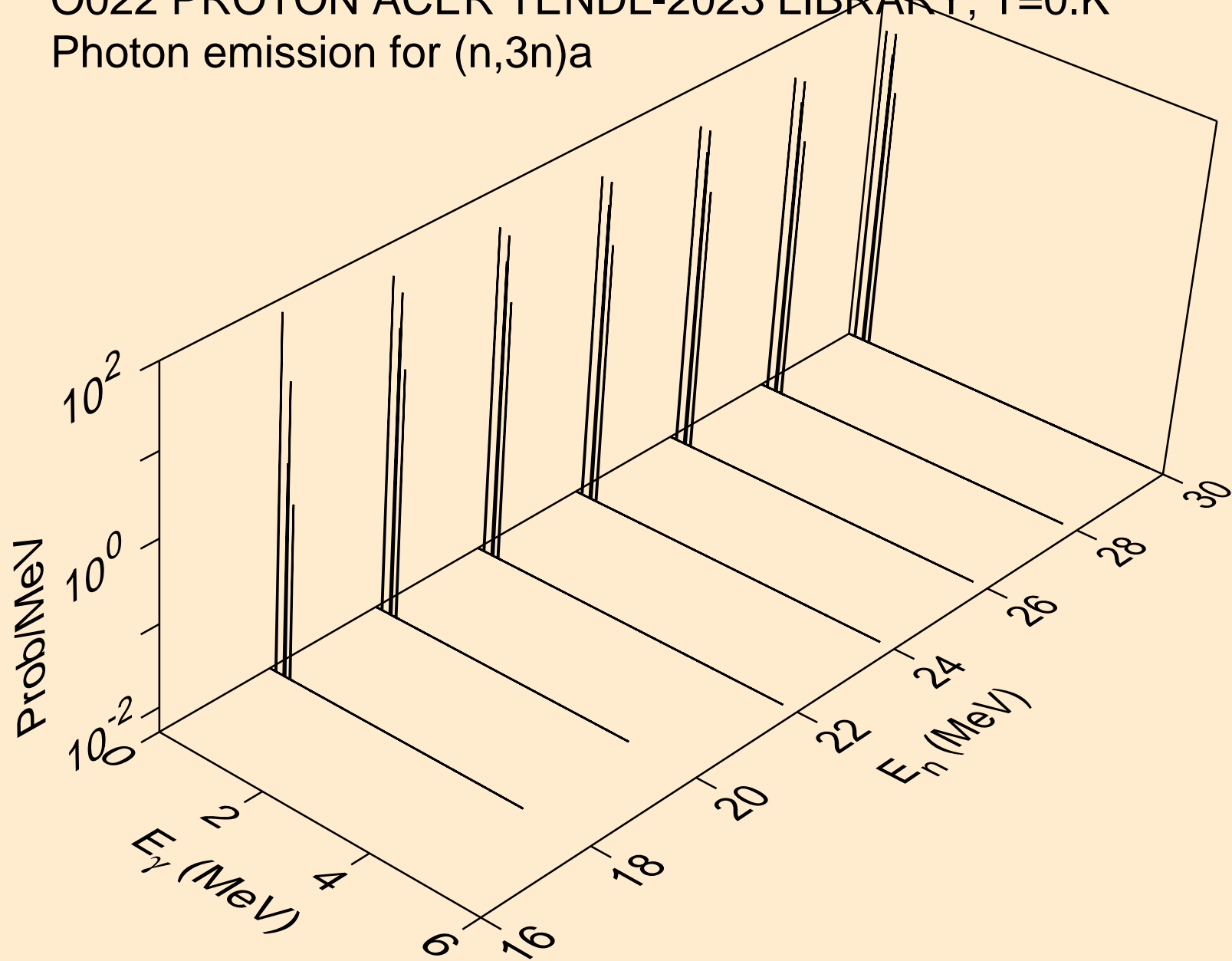
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Photon emission for (n,n\*)a



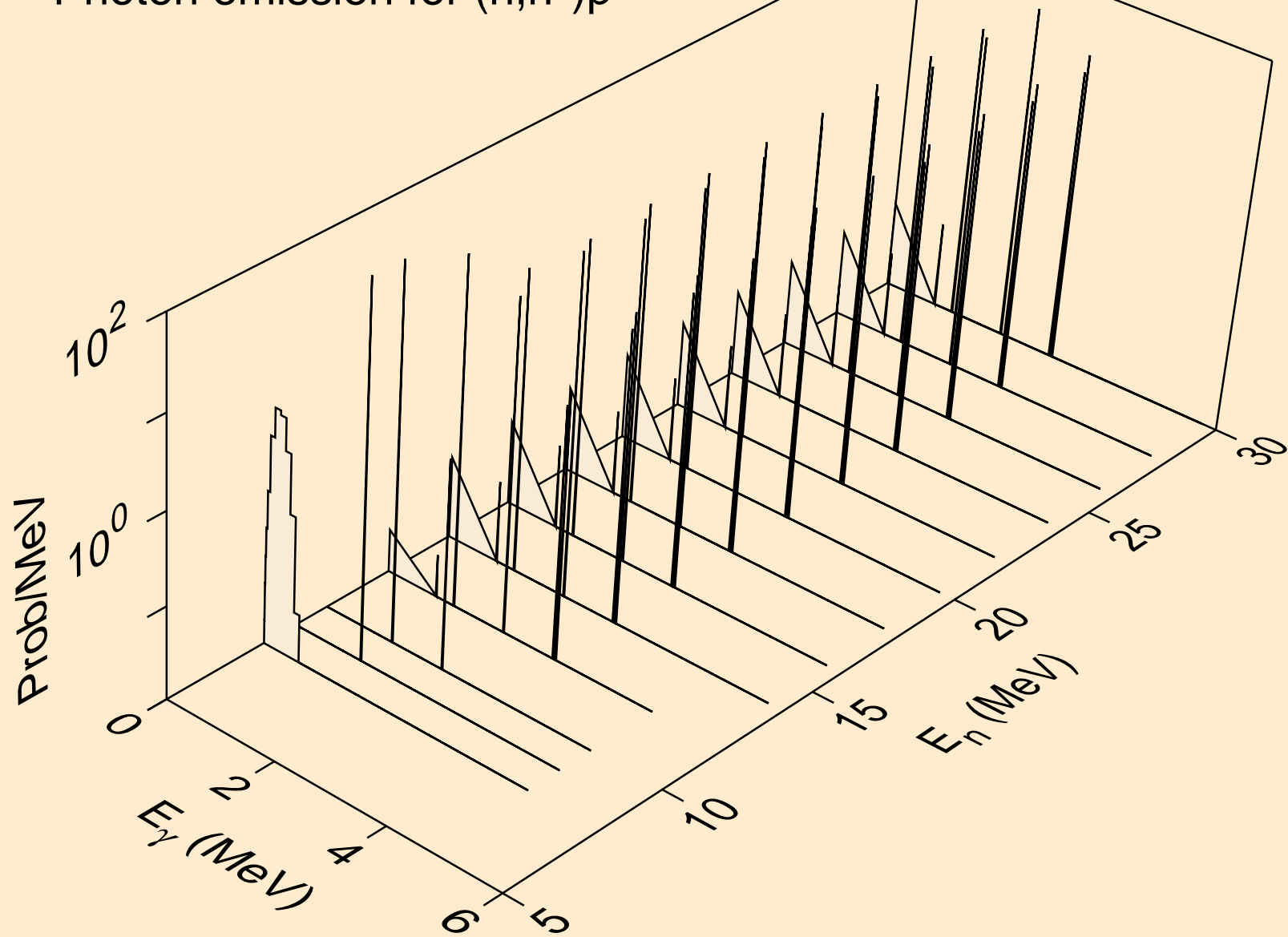
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Photon emission for (n,2n)a



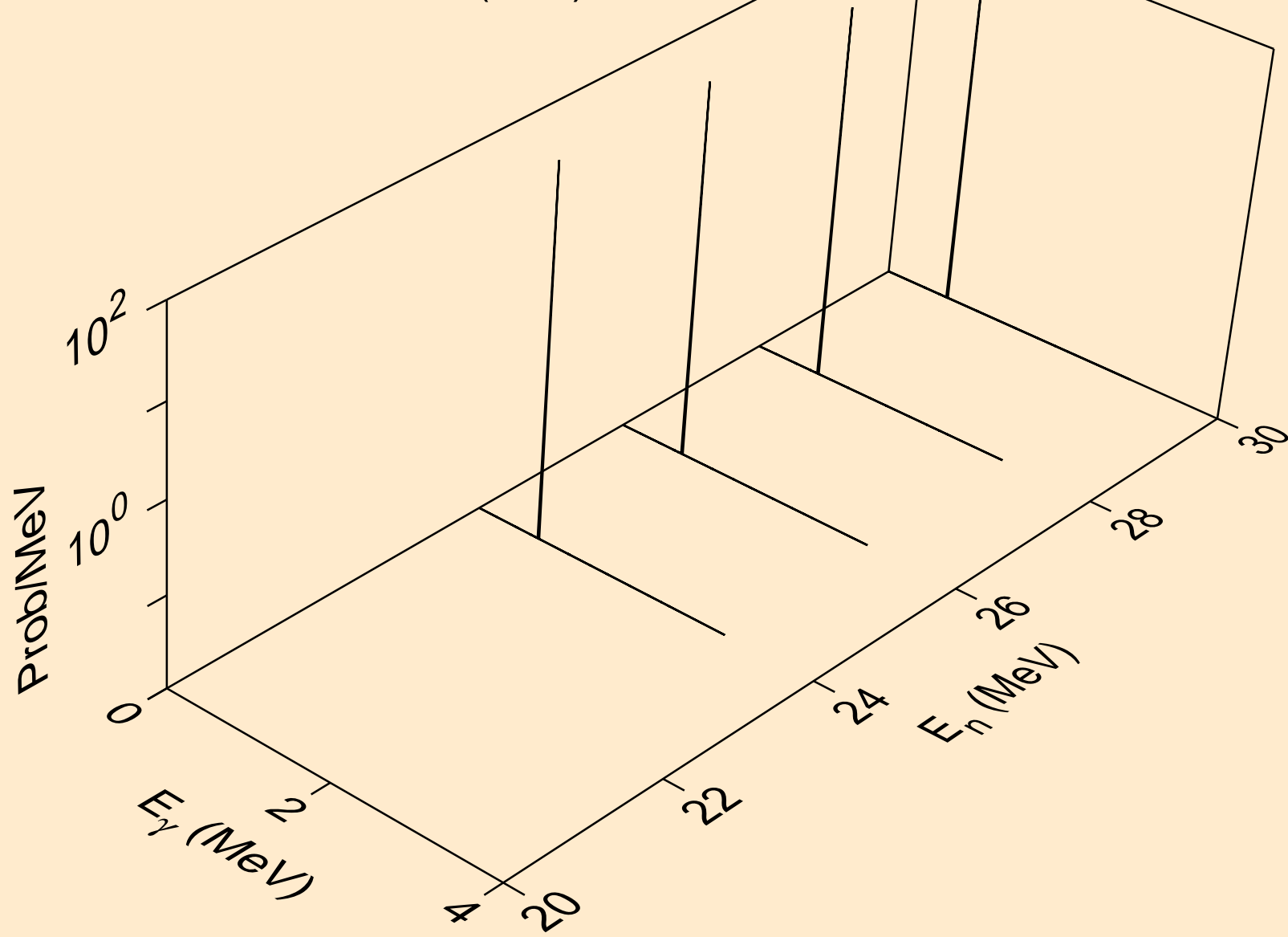
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Photon emission for (n,3n)a



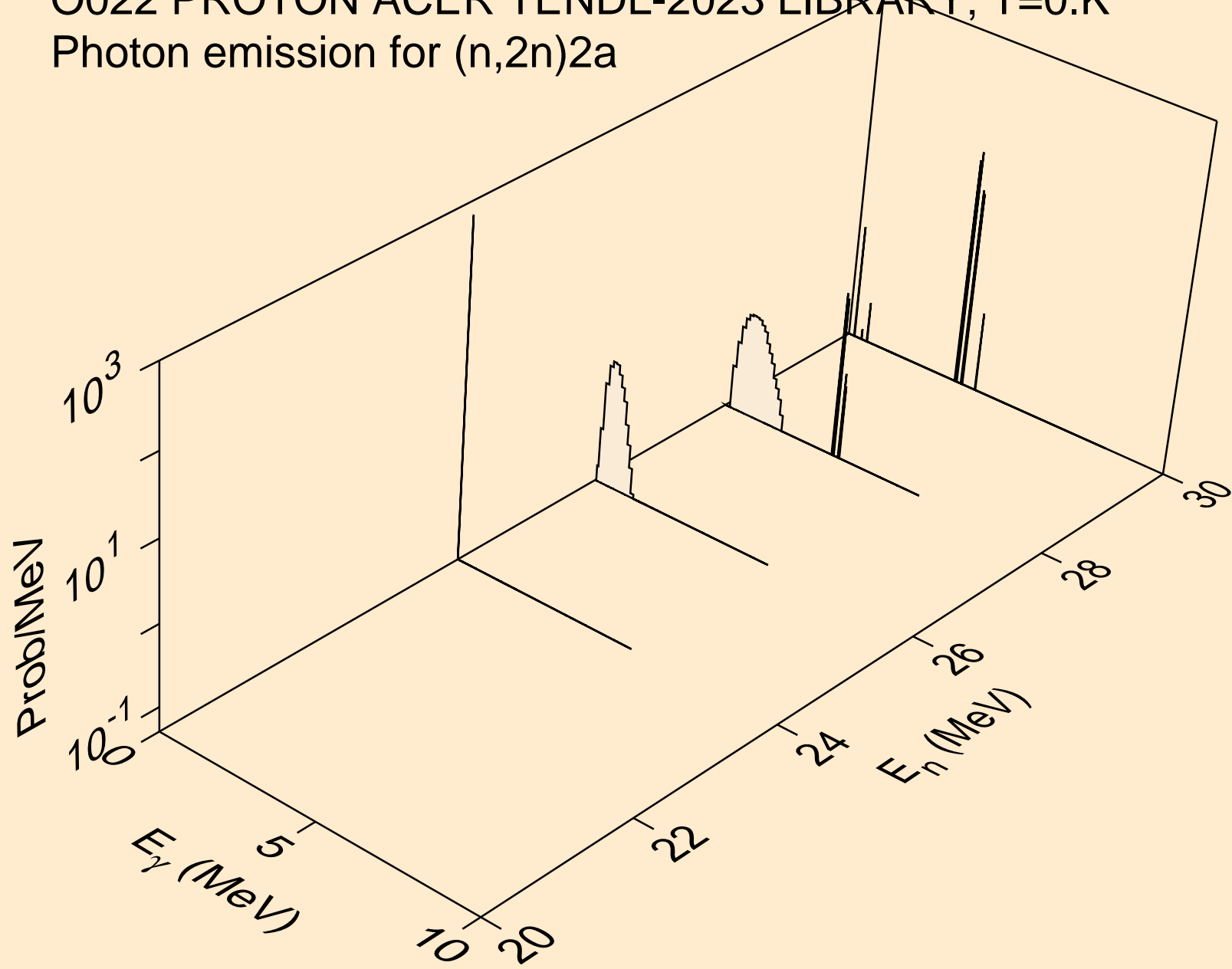
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Photon emission for (n,n\*)p



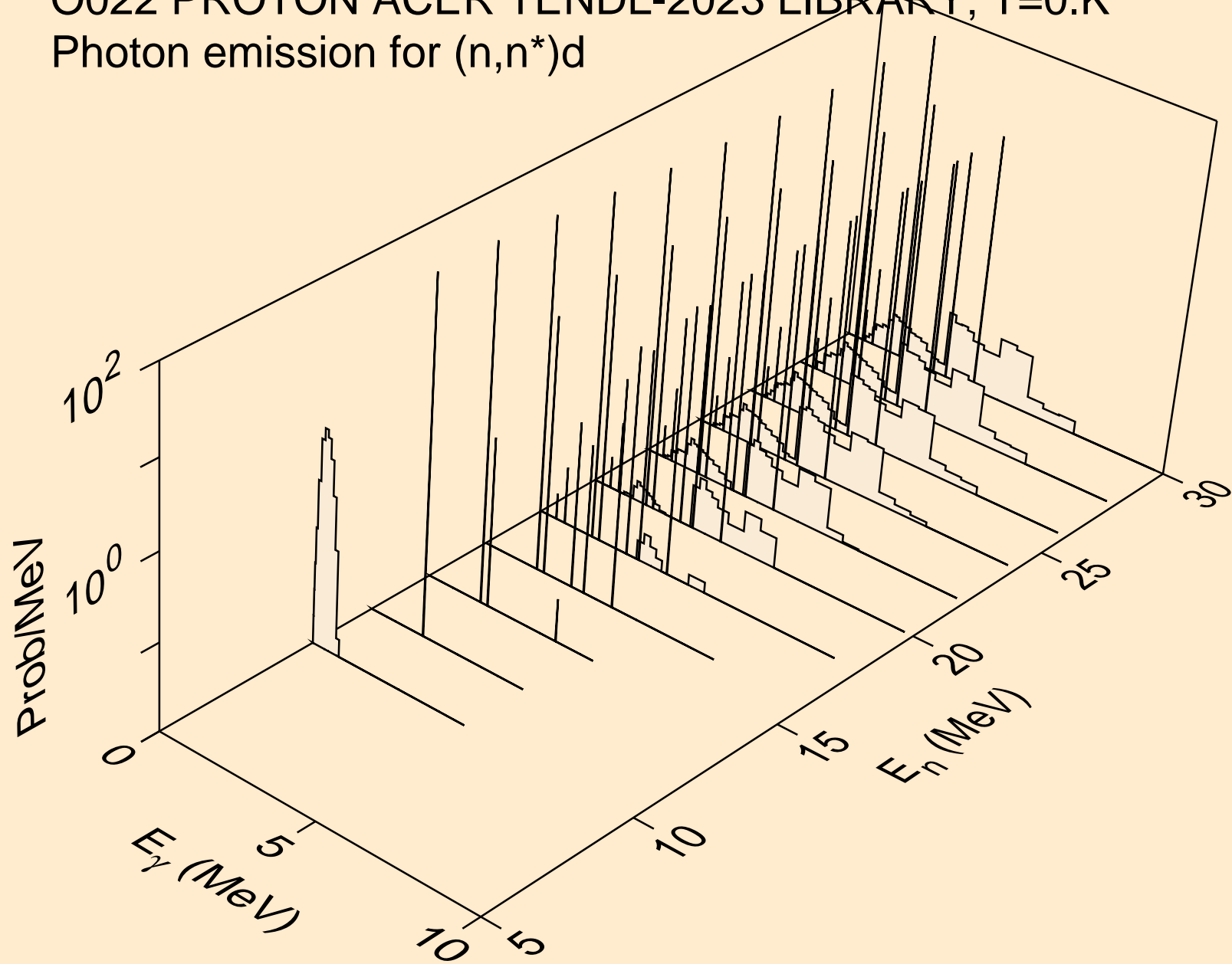
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Photon emission for (n,n\*)2a



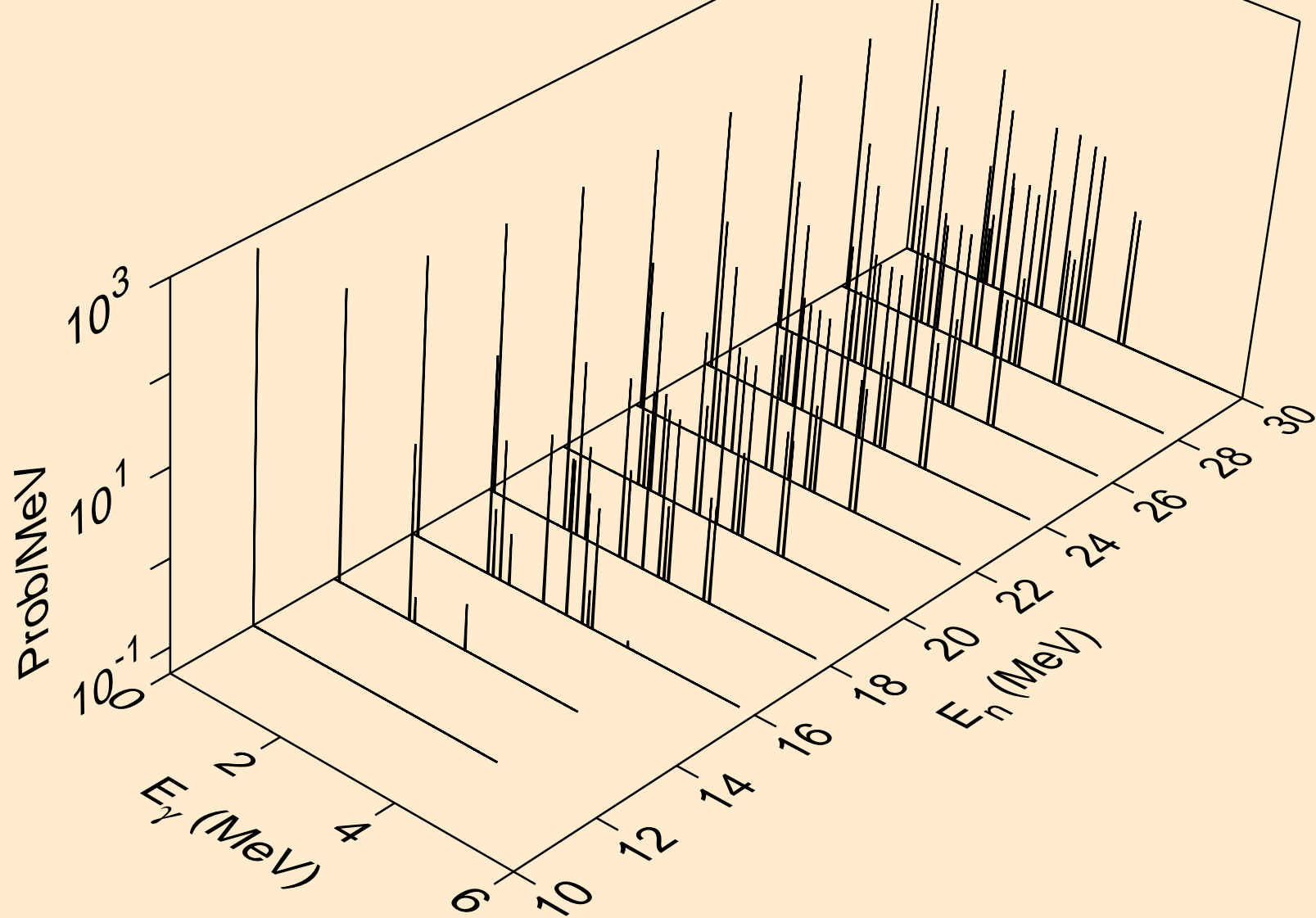
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

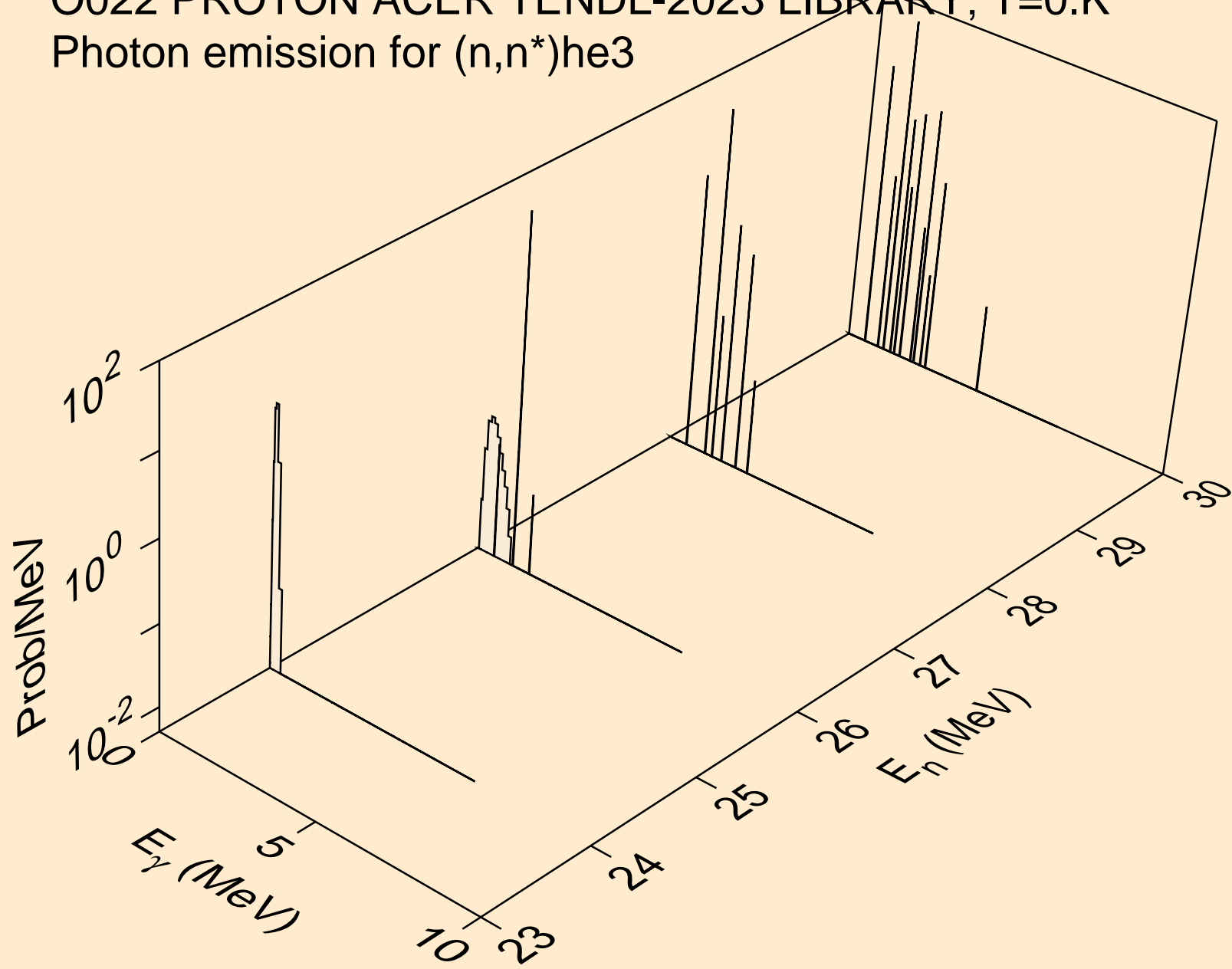


O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

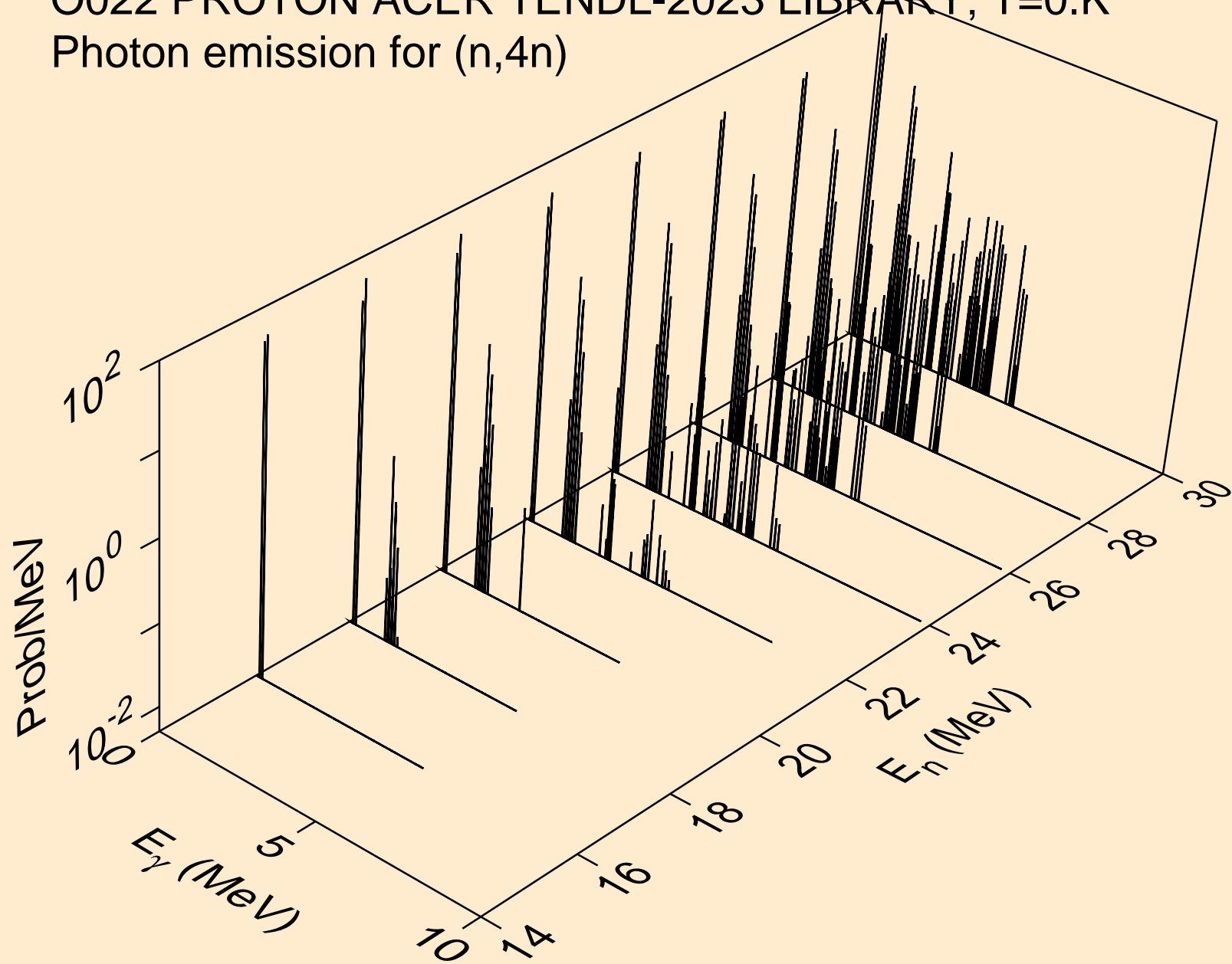




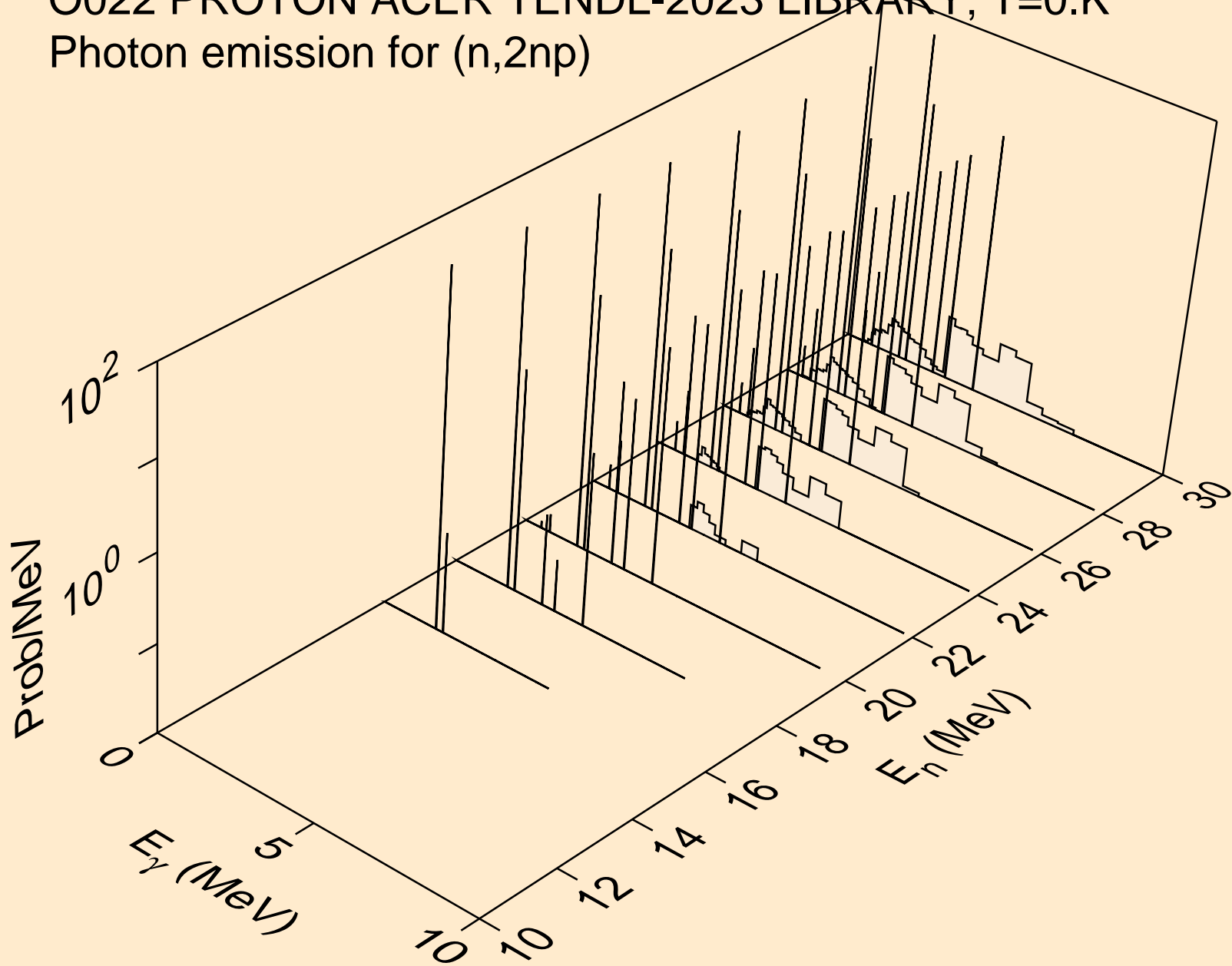
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



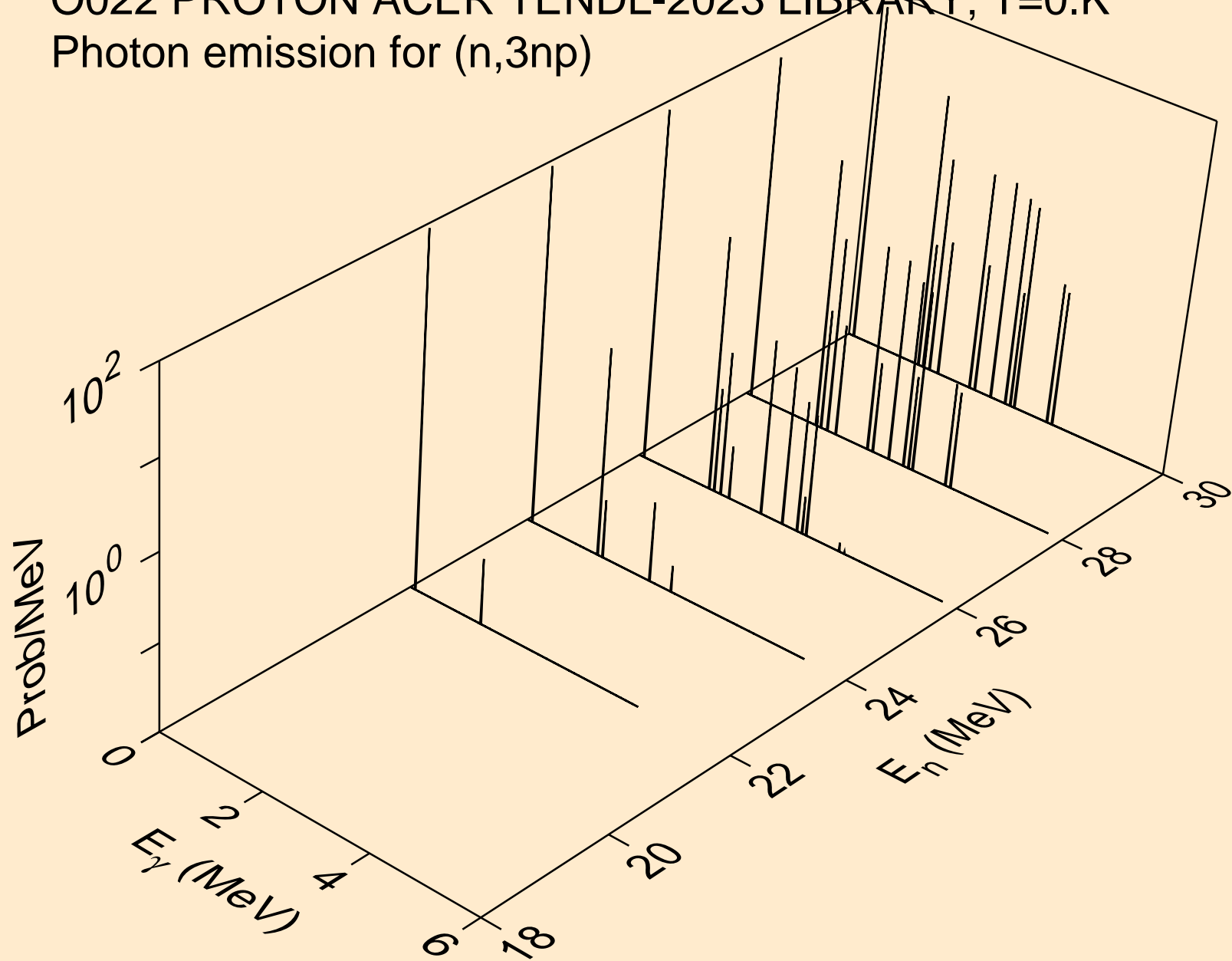
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



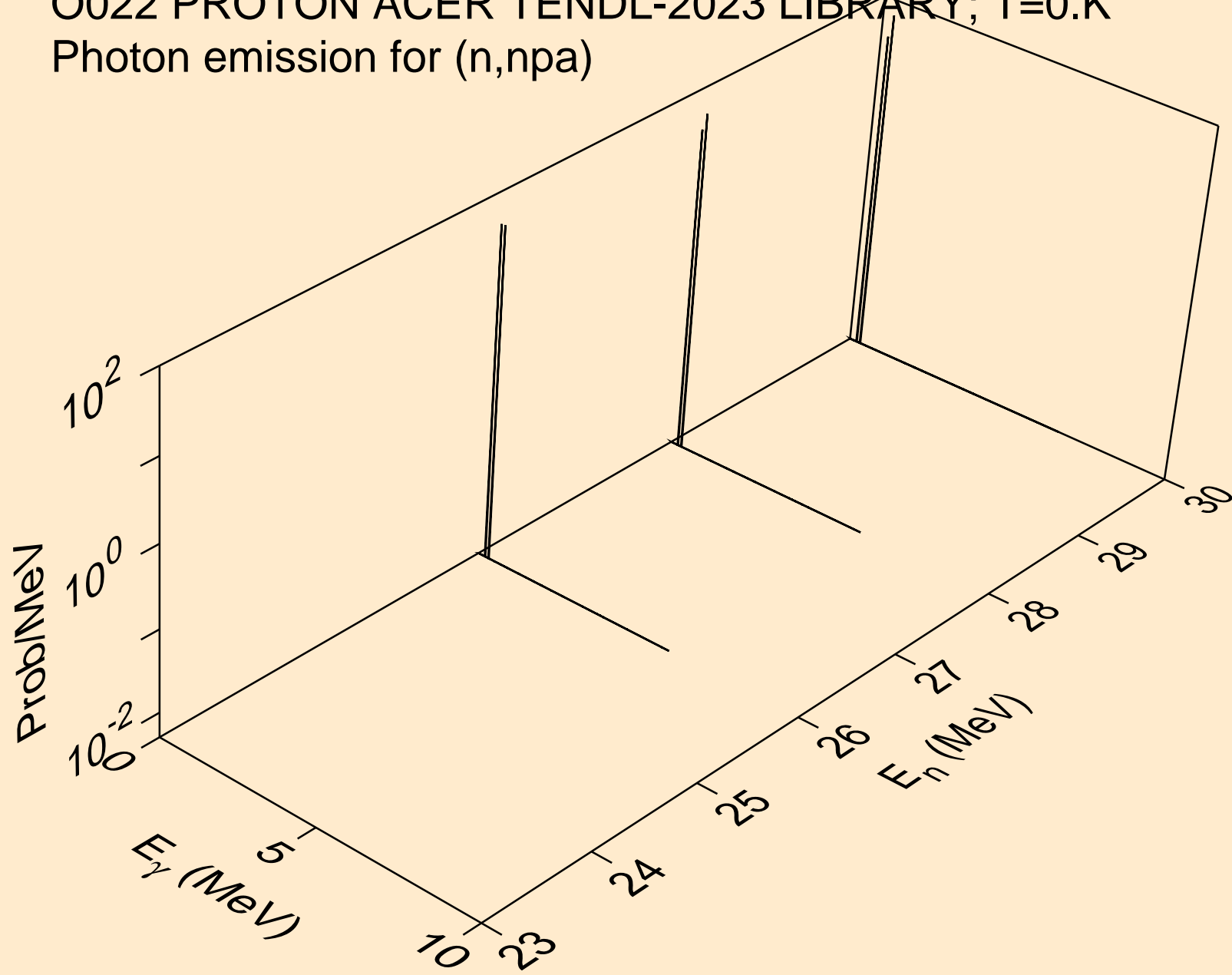
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Photon emission for (n,2np)



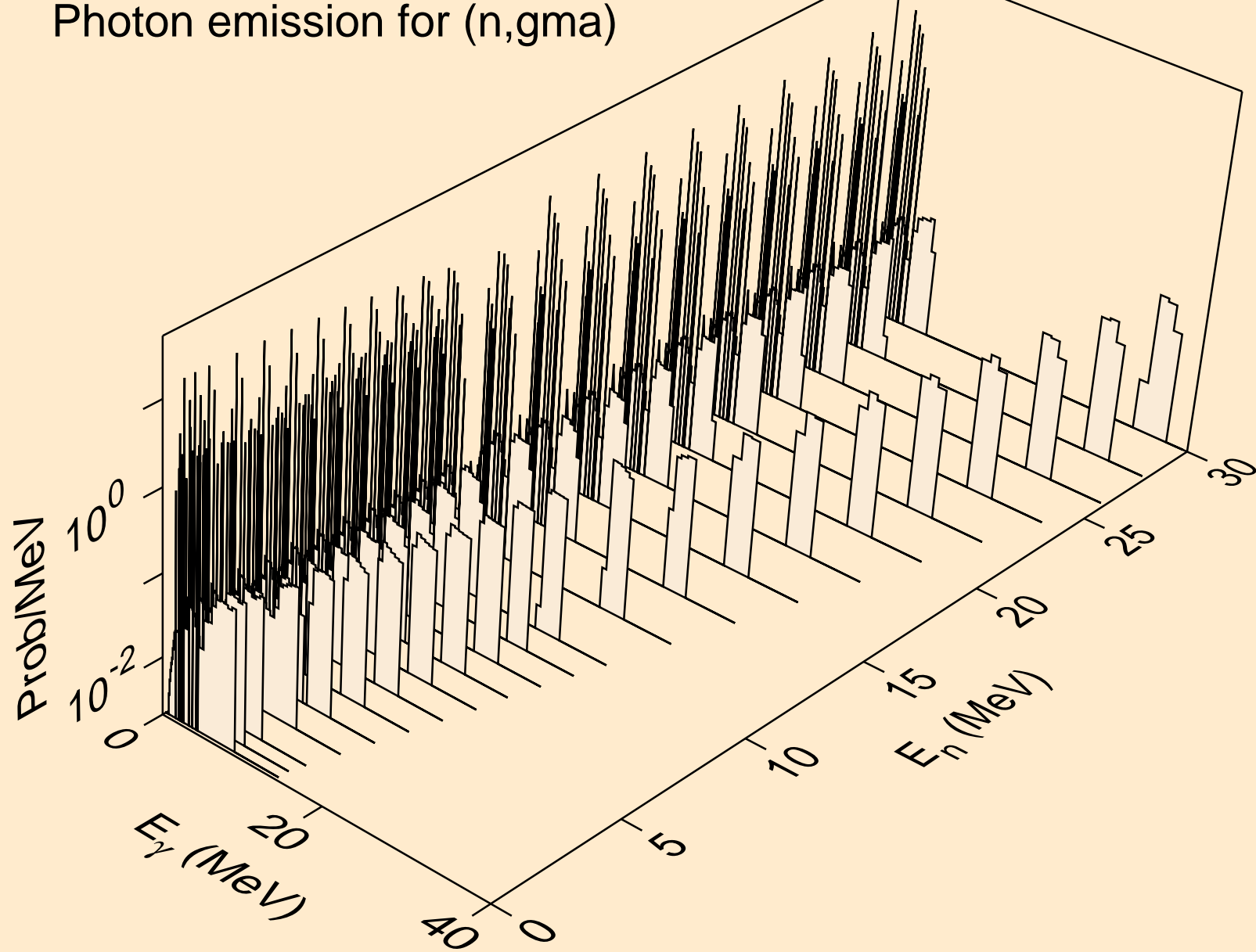
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Photon emission for (n,3np)



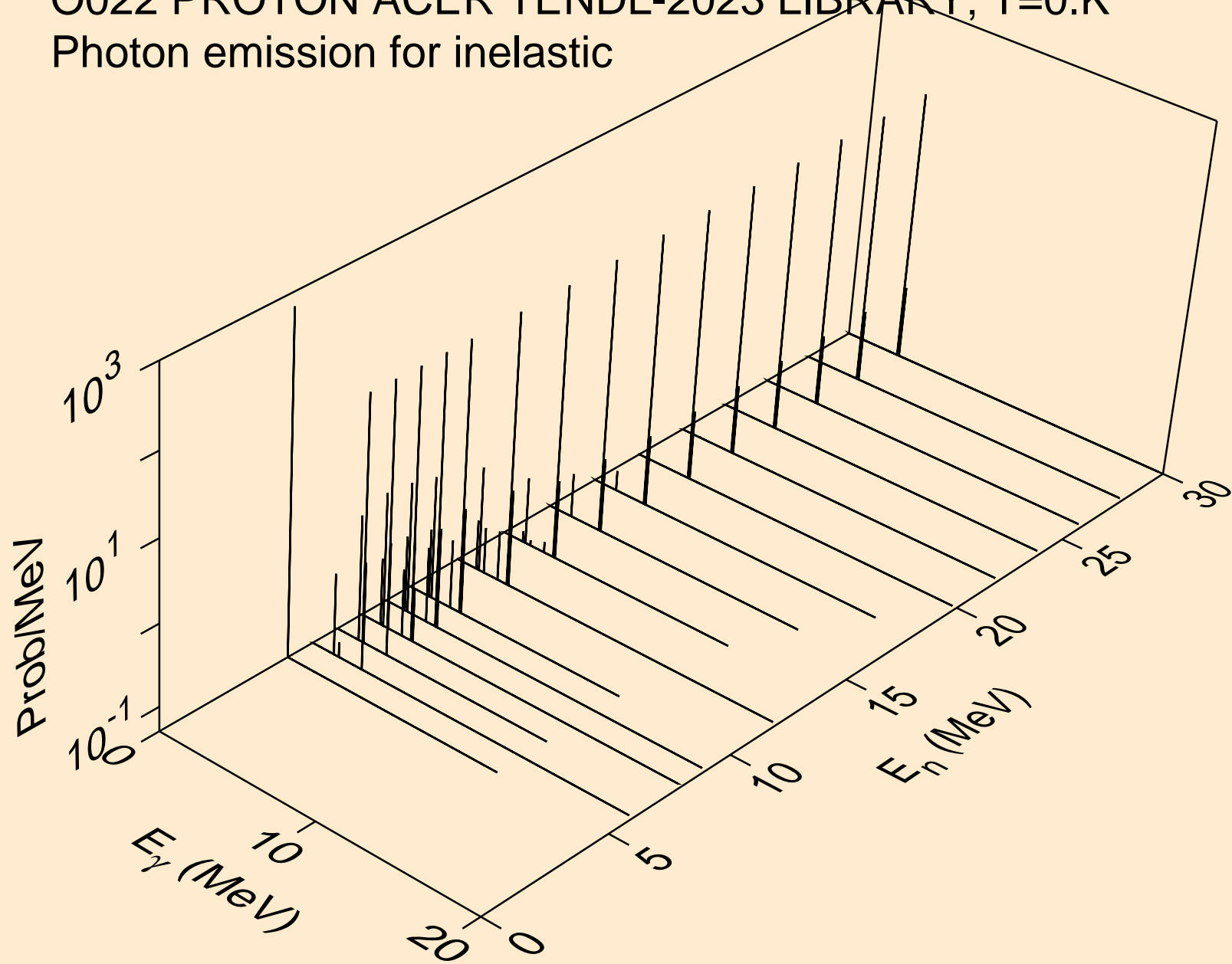
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Photon emission for (n,npa)



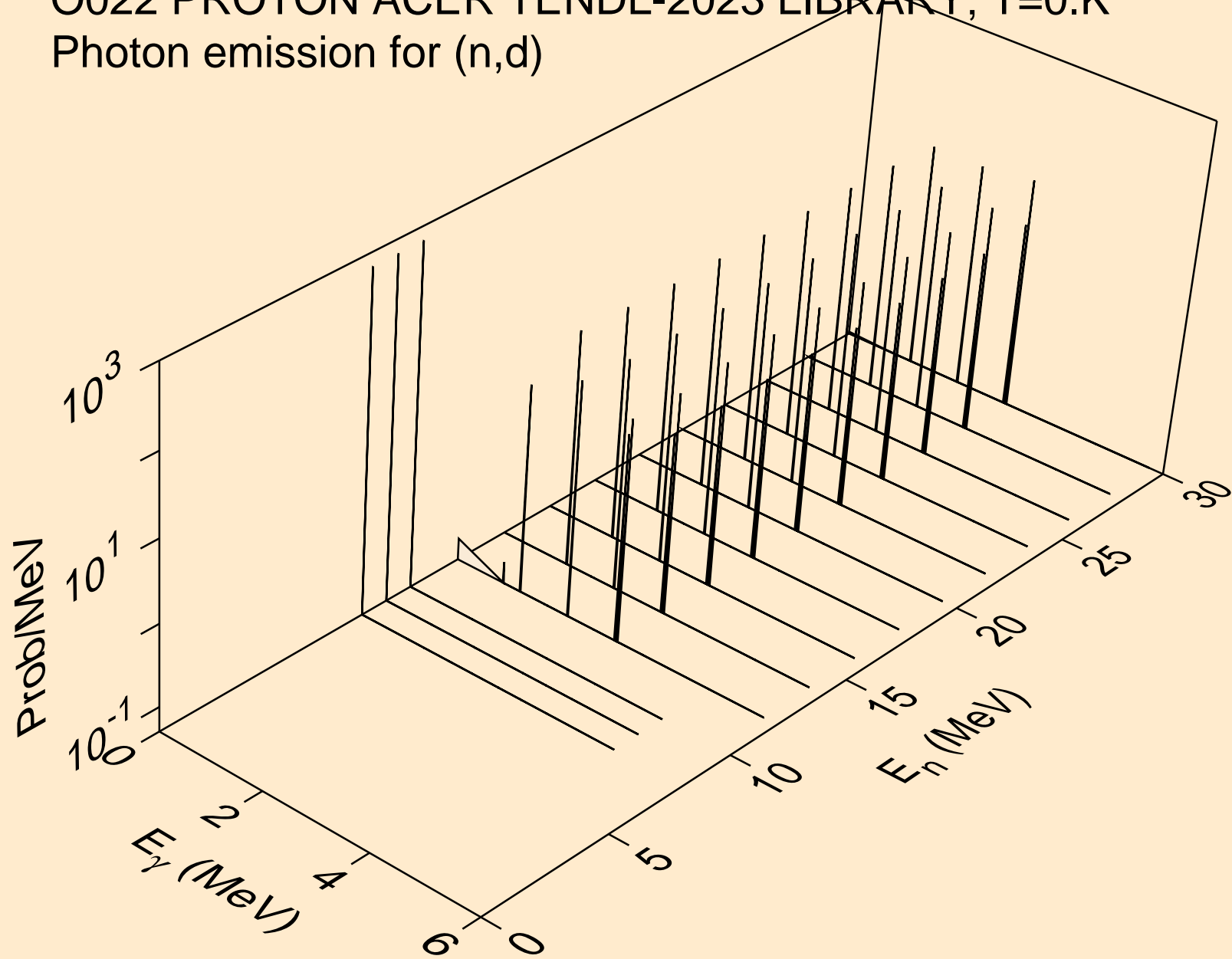
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic

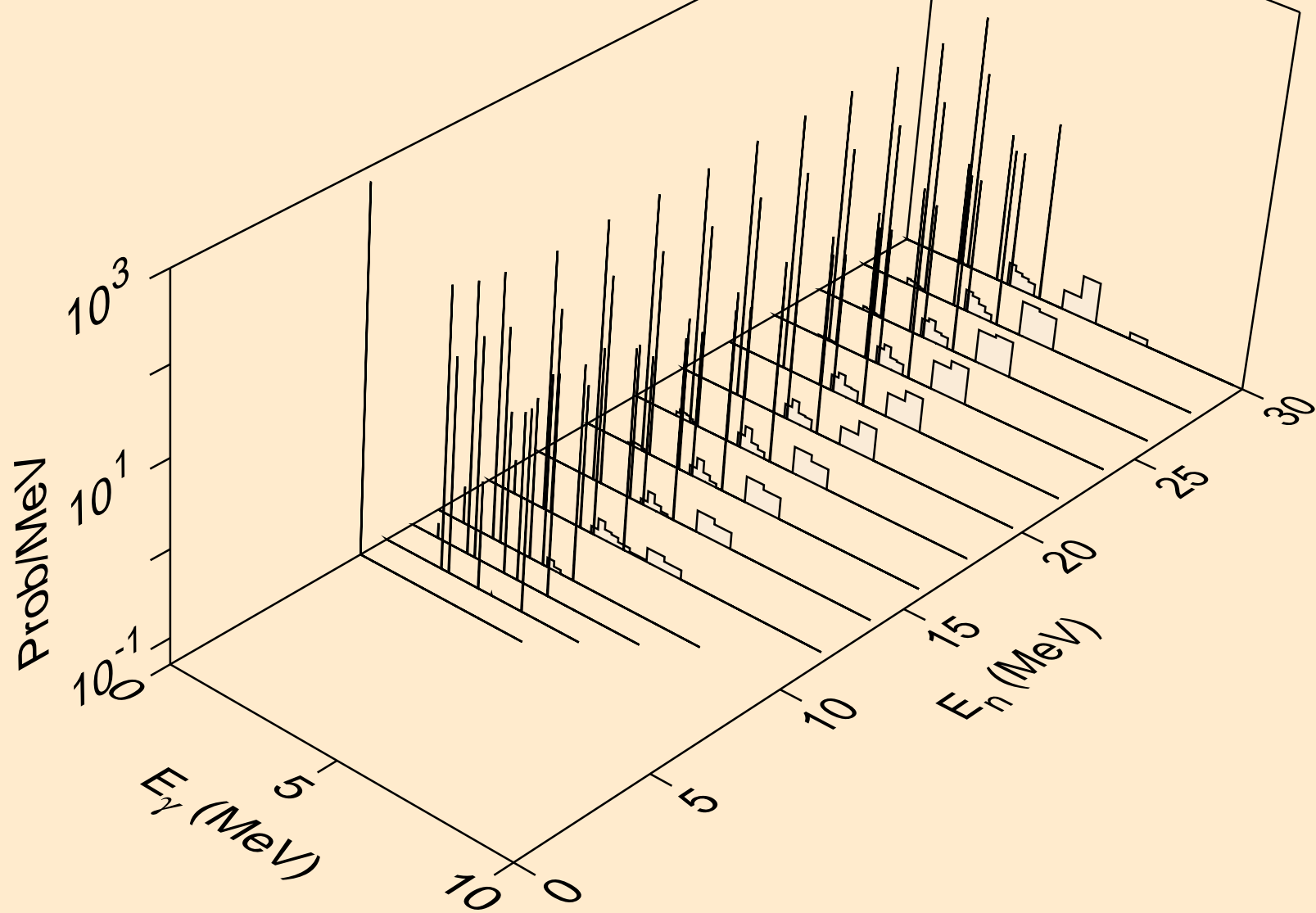


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Photon emission for (n,d)

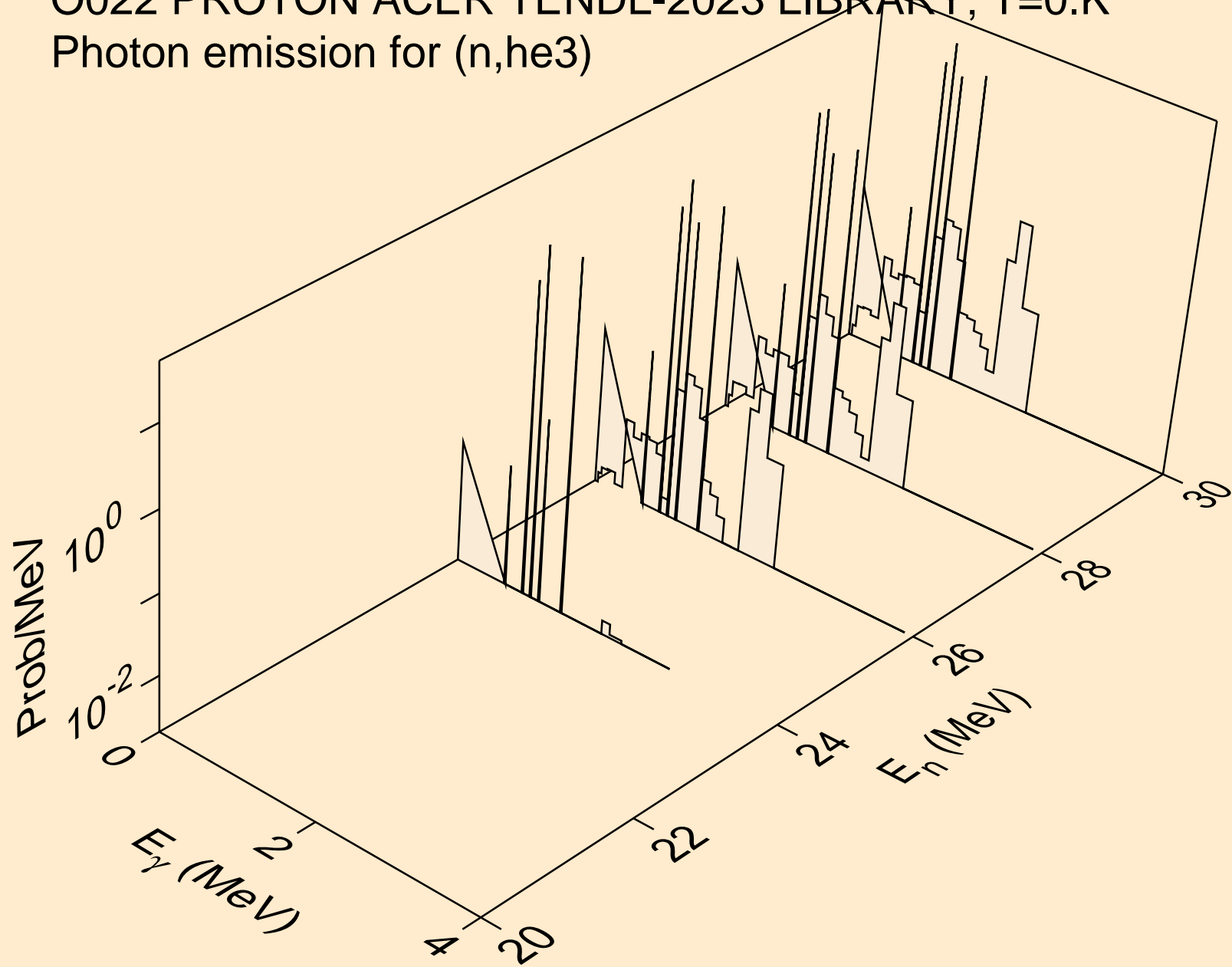




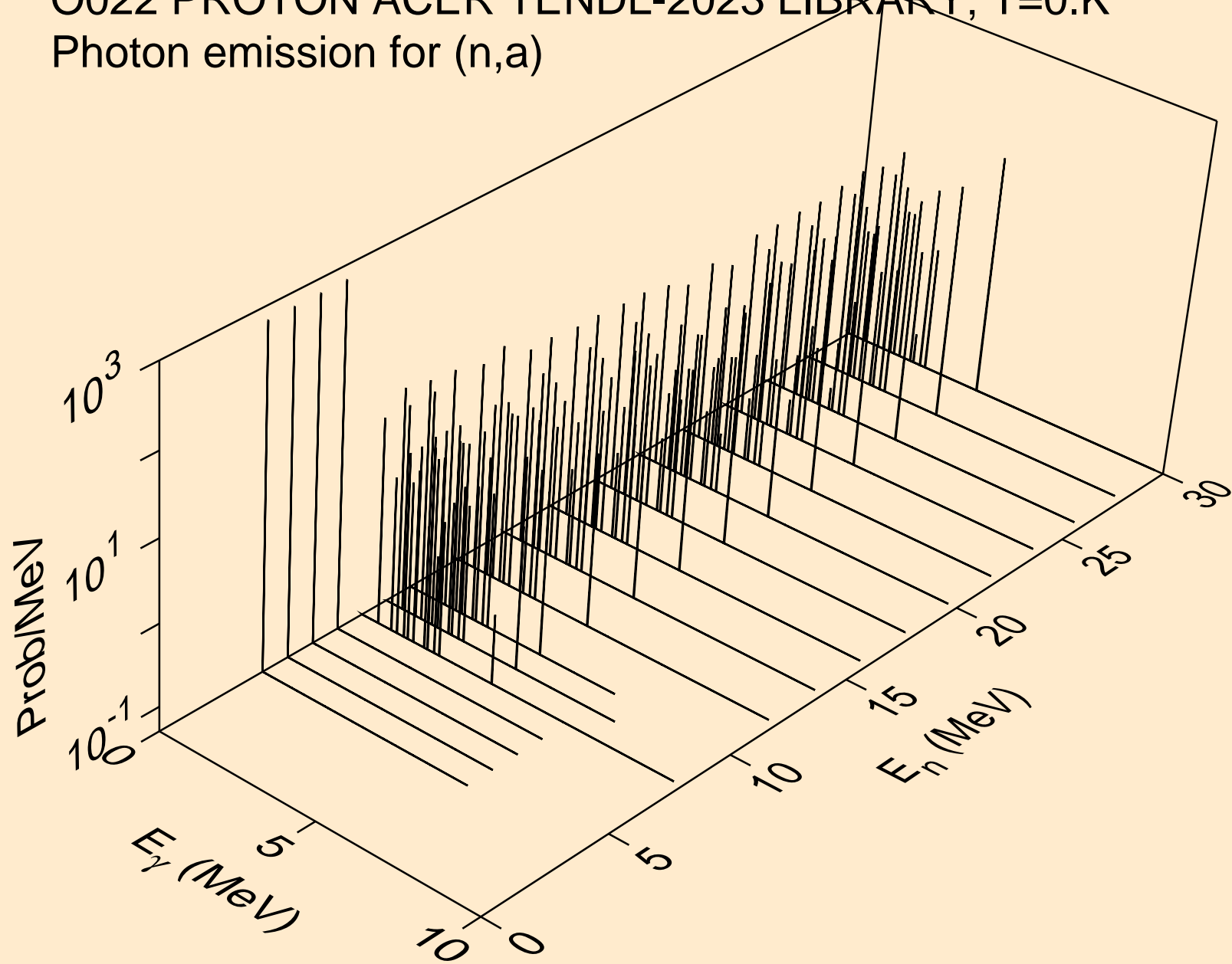
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Photon emission for (n,t)



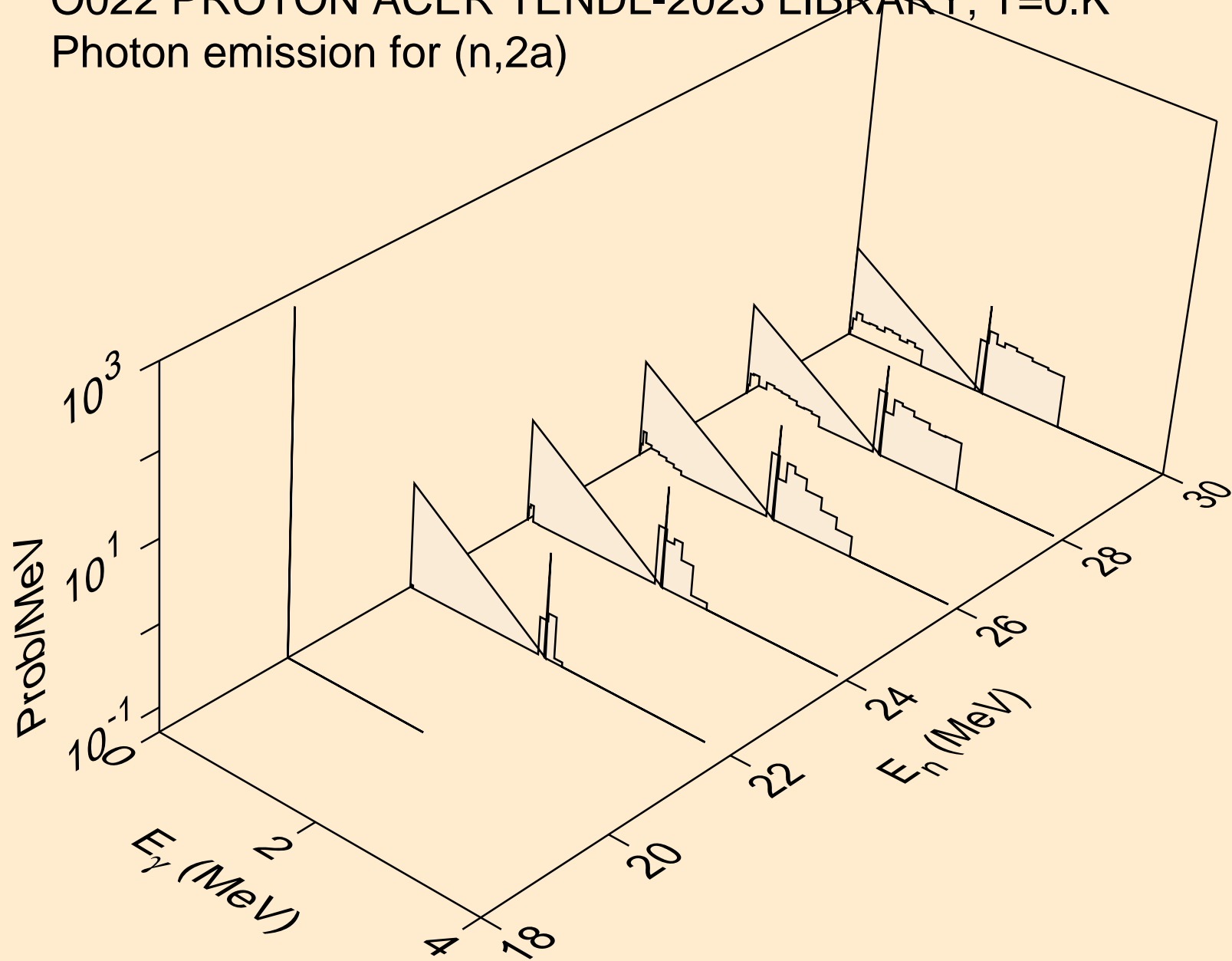
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Photon emission for (n,he3)



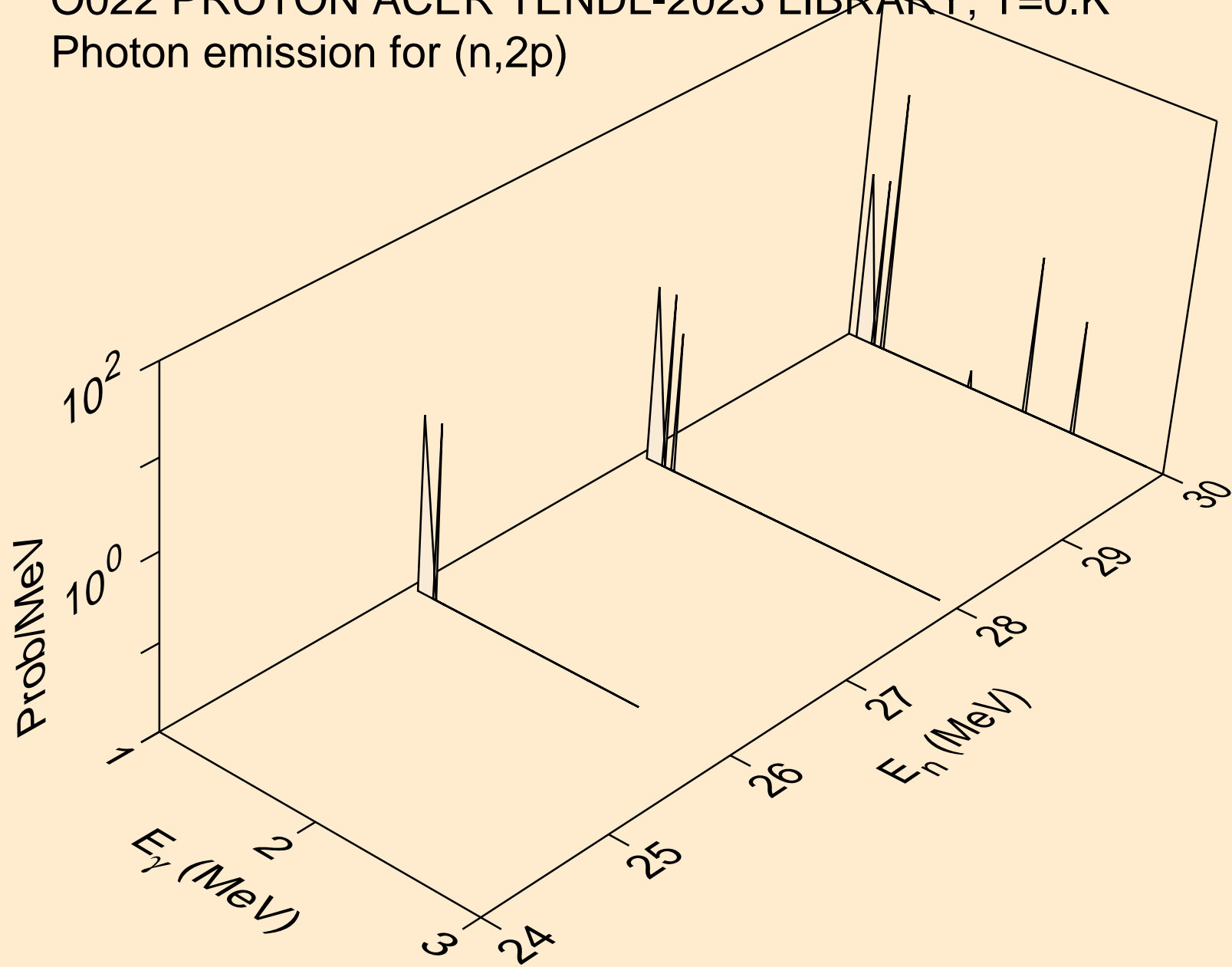
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Photon emission for (n,a)



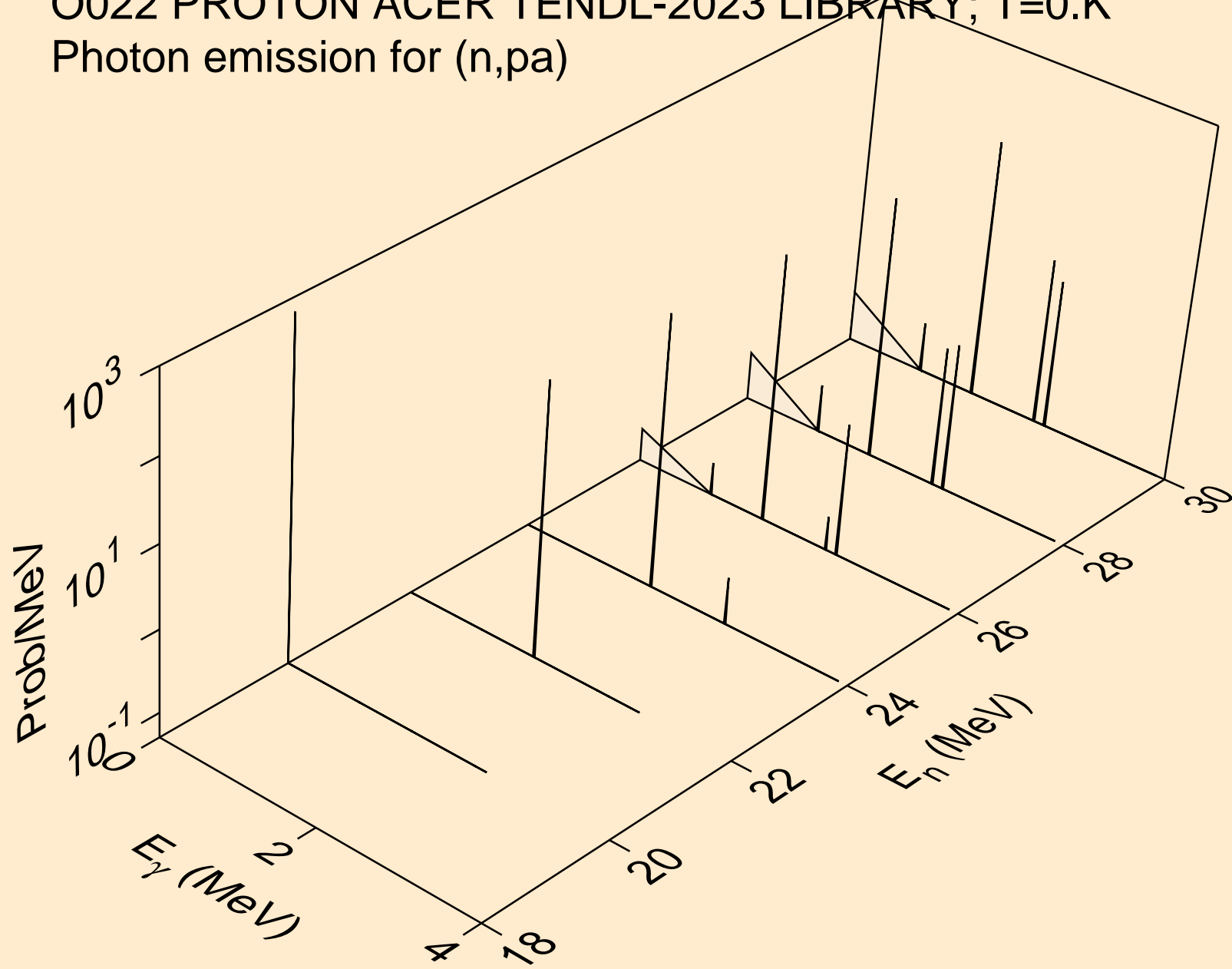
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Photon emission for (n,2a)



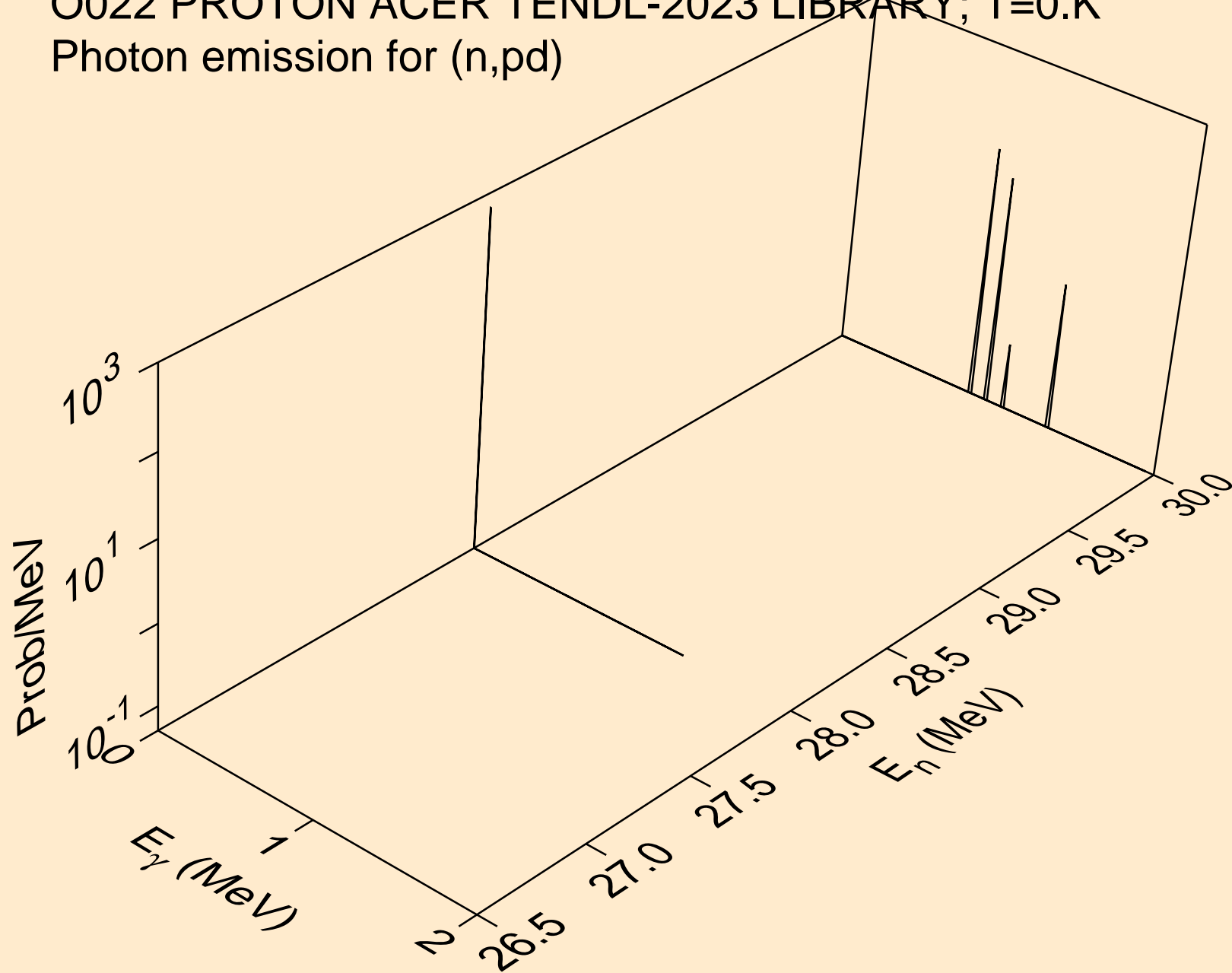
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Photon emission for (n,2p)



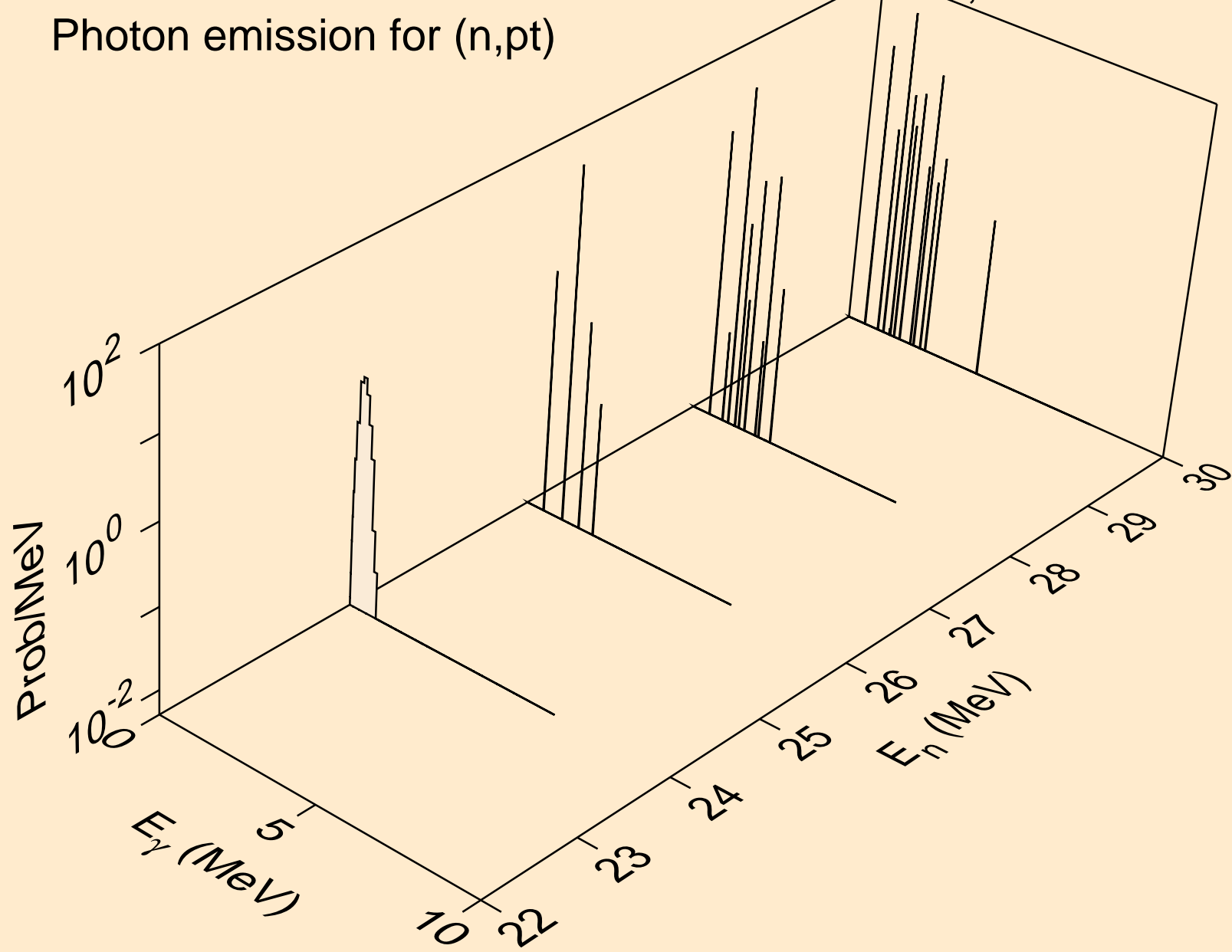
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Photon emission for (n,p)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

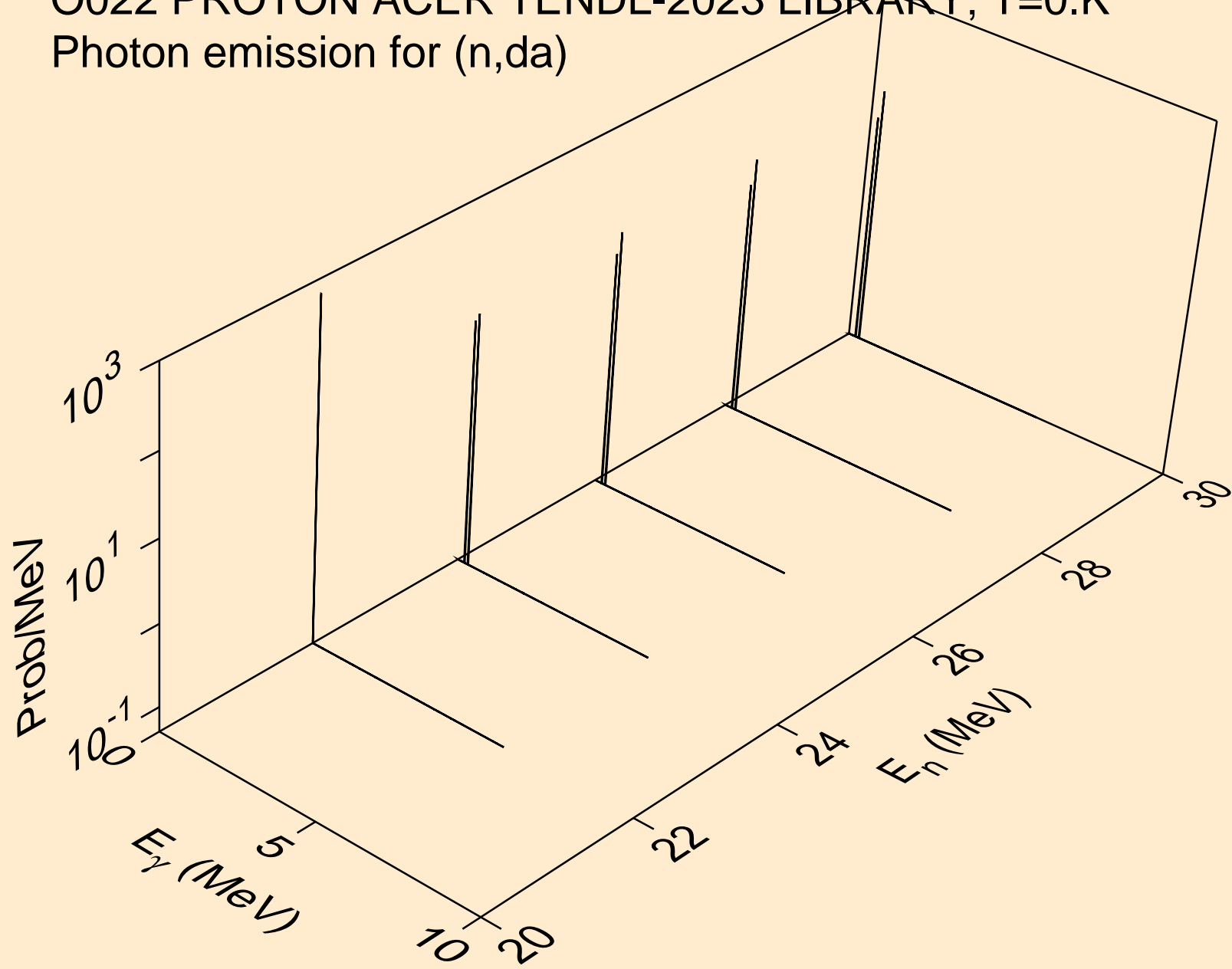


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Photon emission for (n,pt)

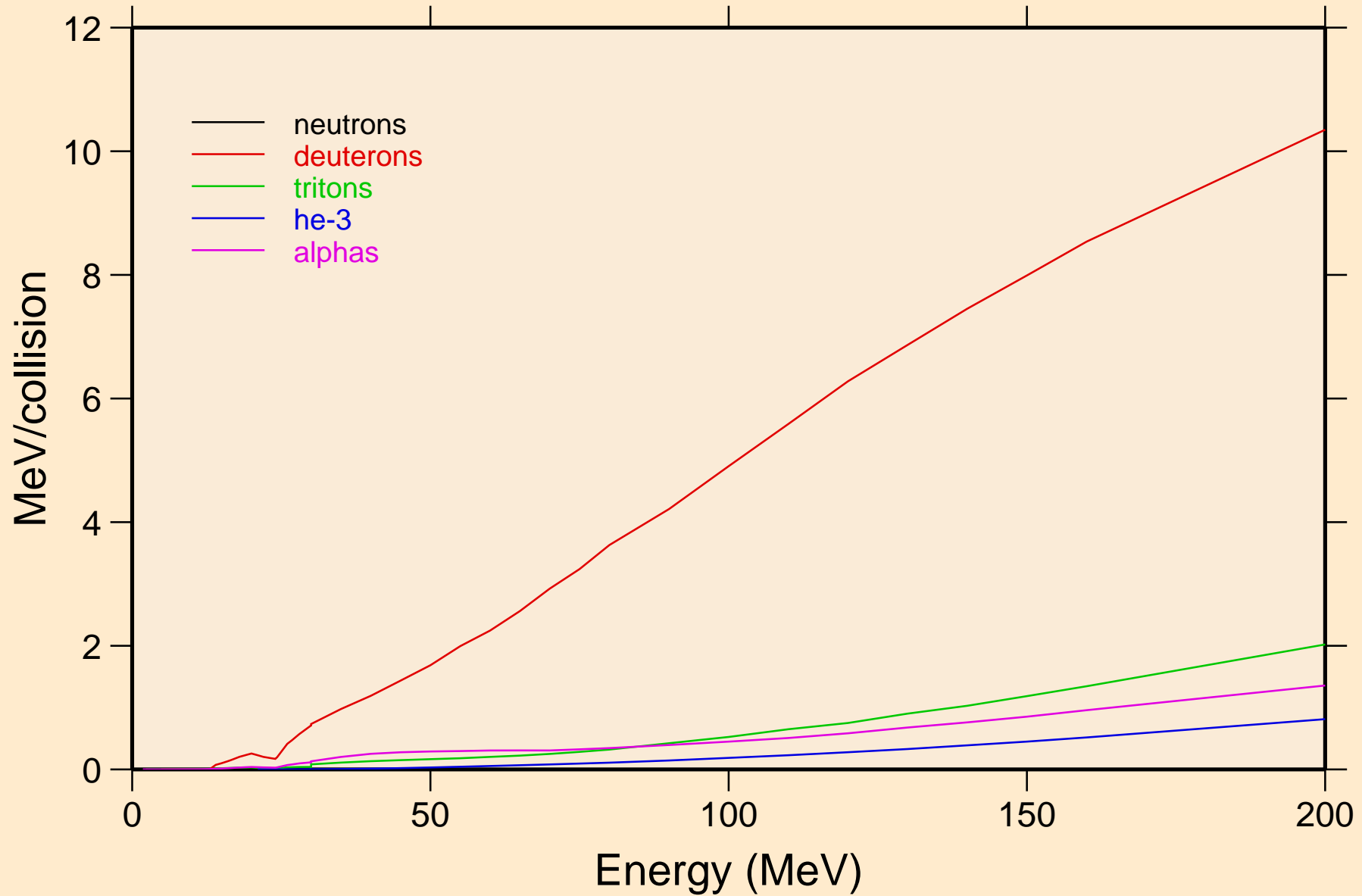




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Photon emission for (n,da)

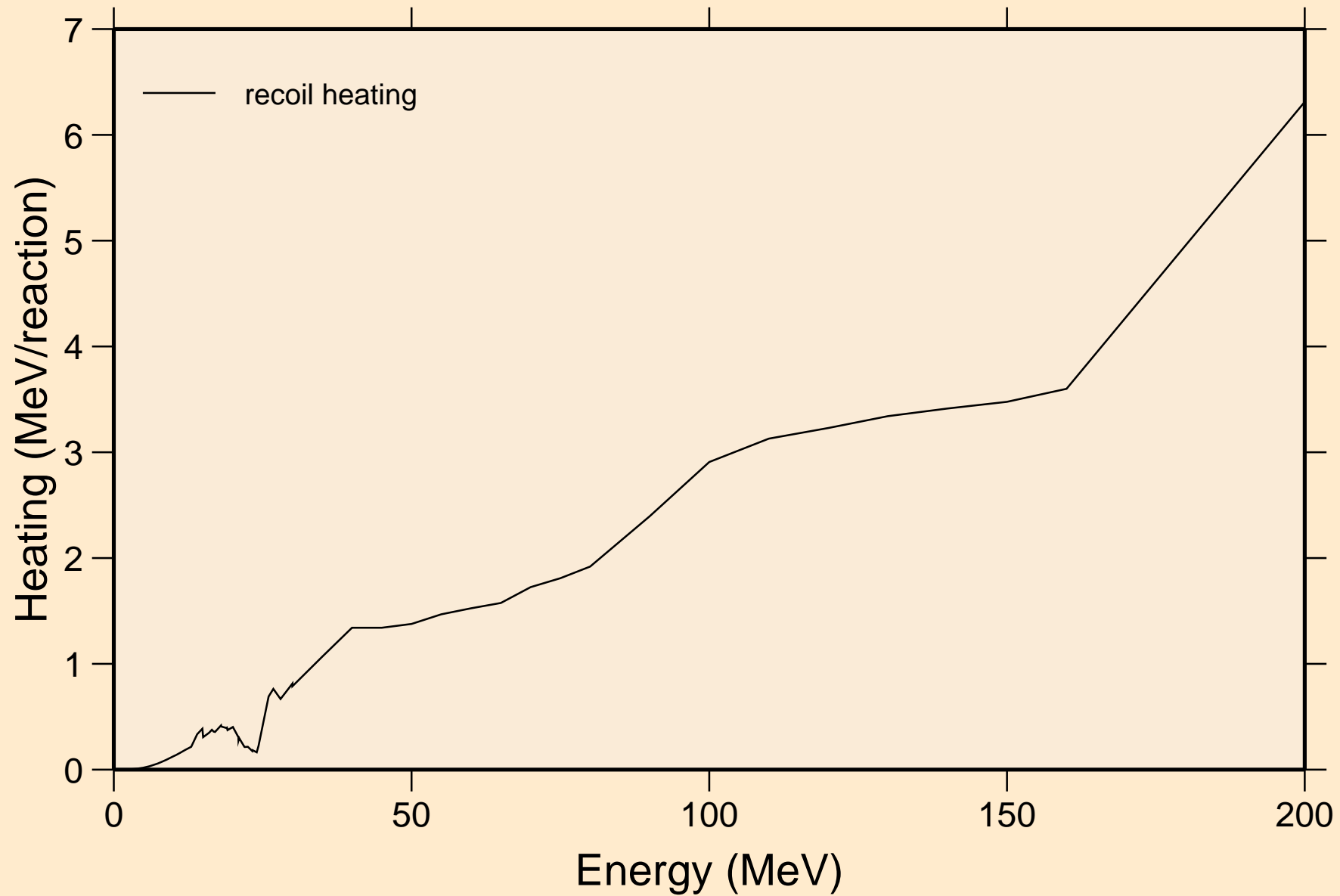


O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

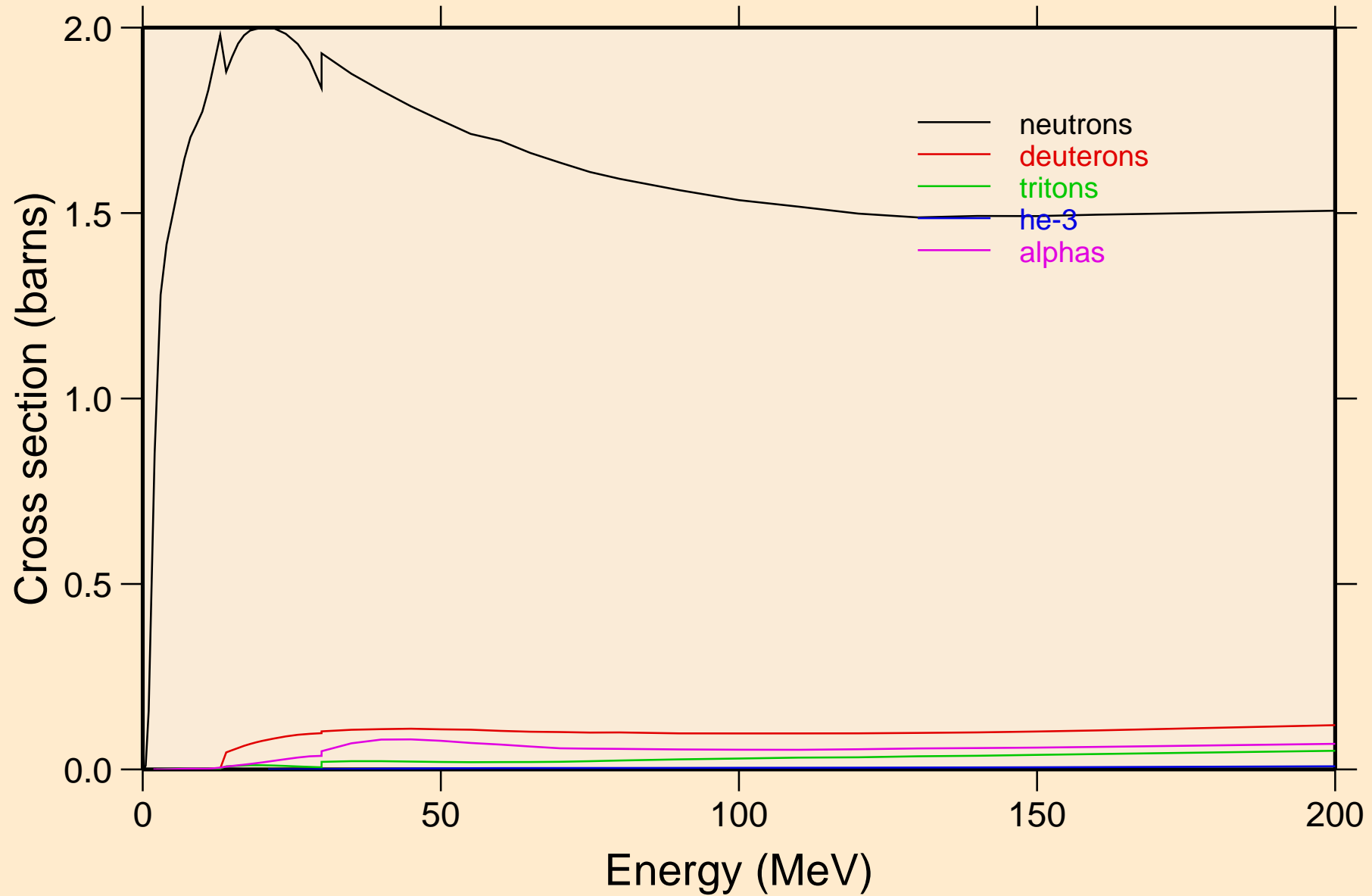


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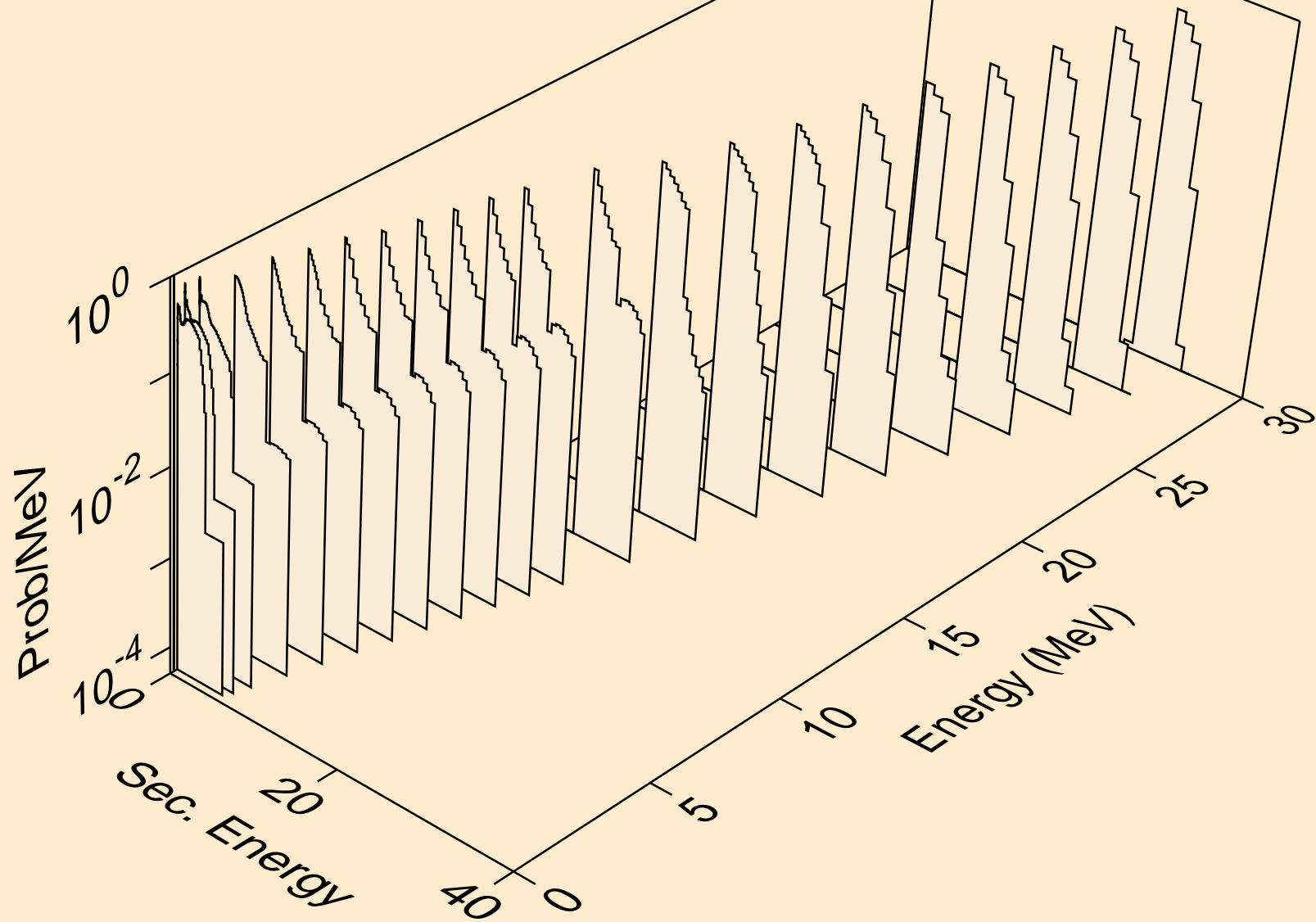
## Recoil Heating



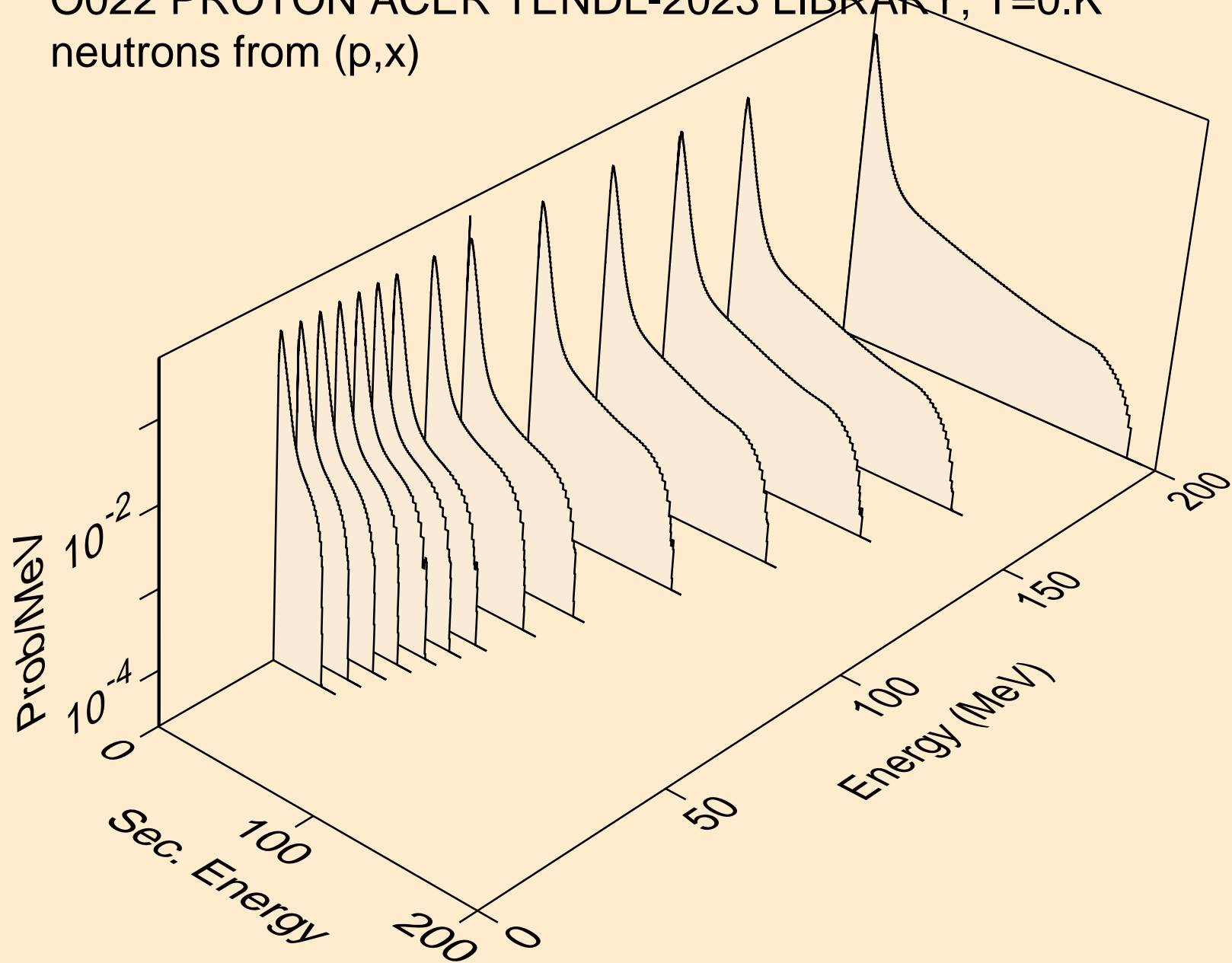
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



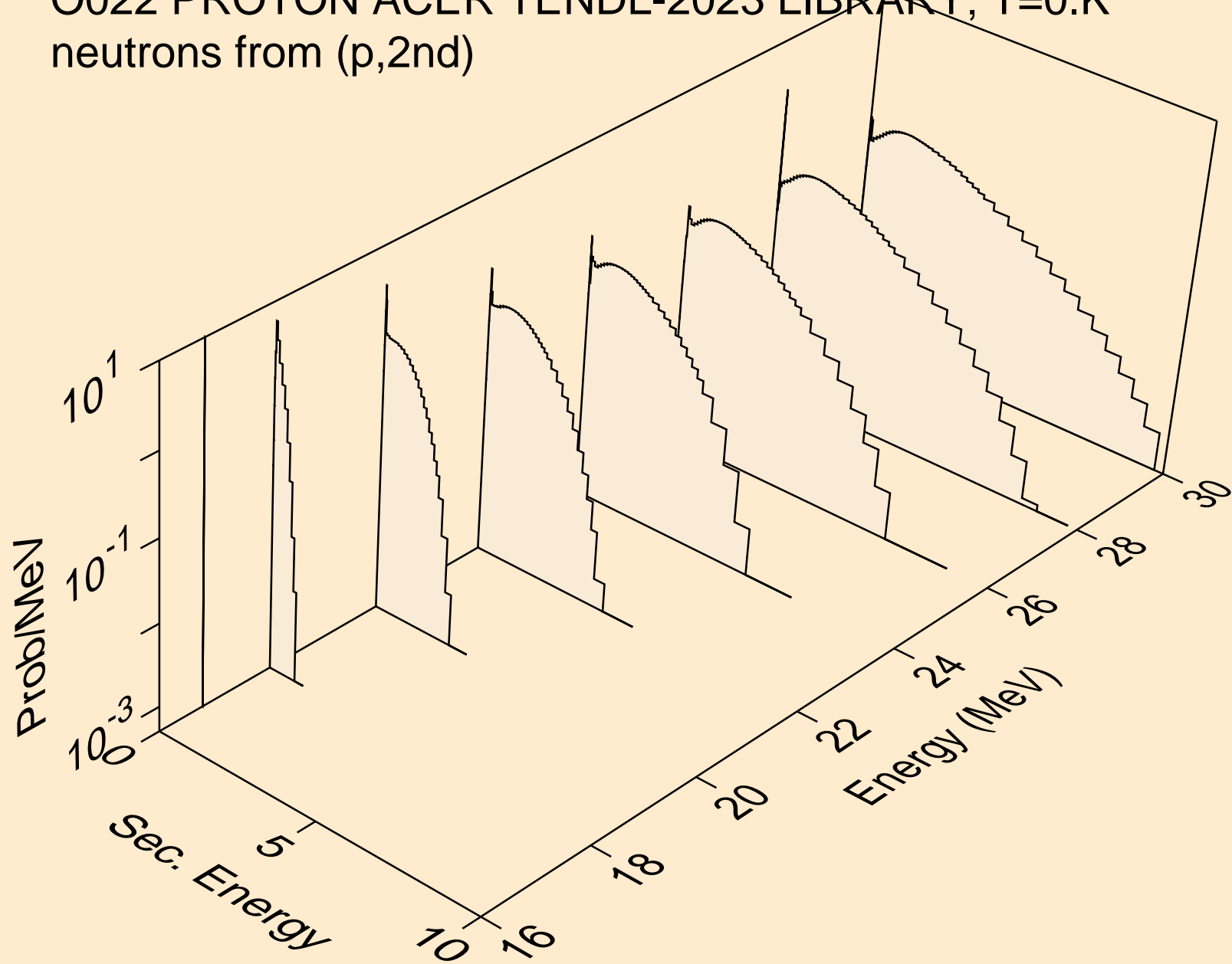
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



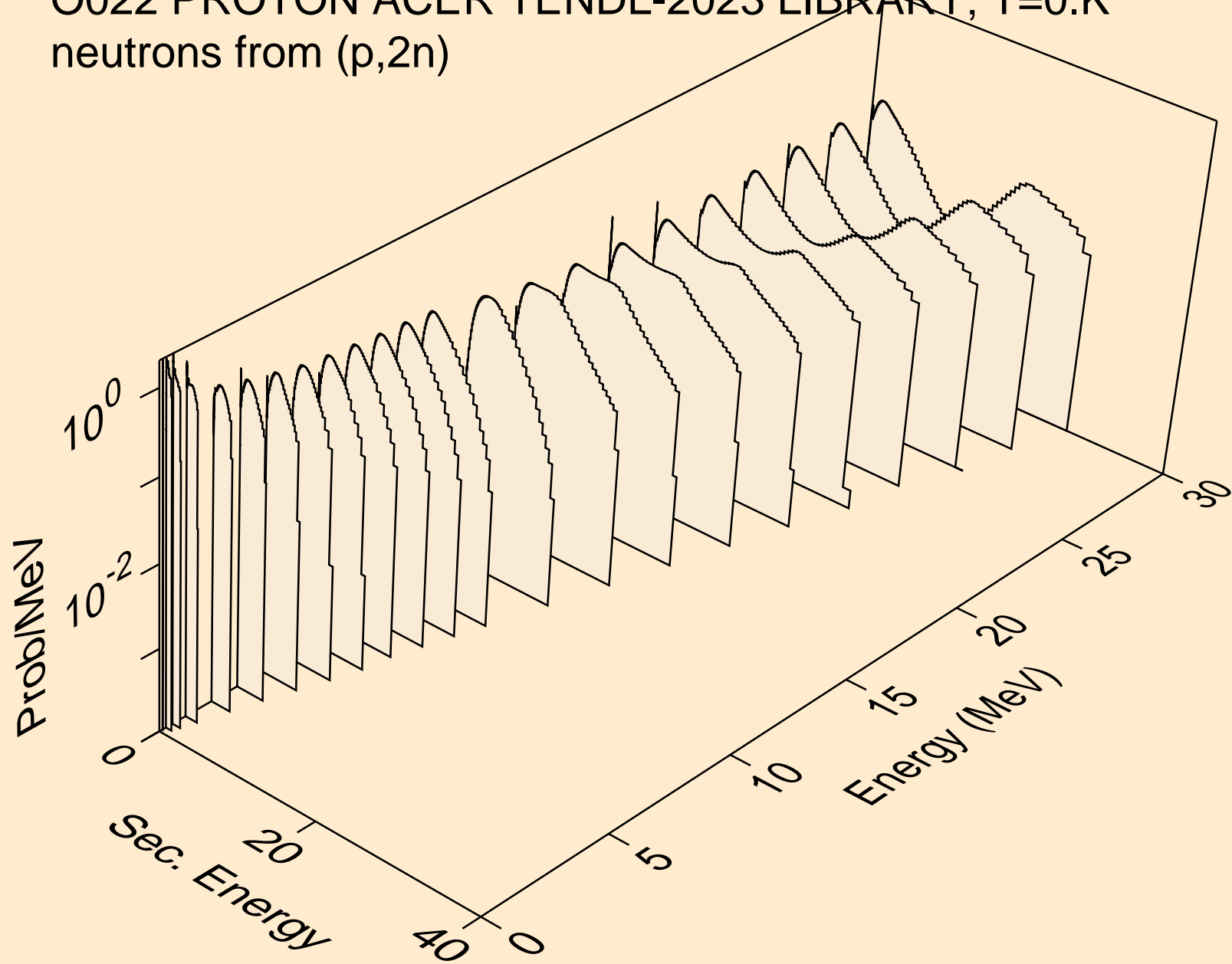
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2nd)

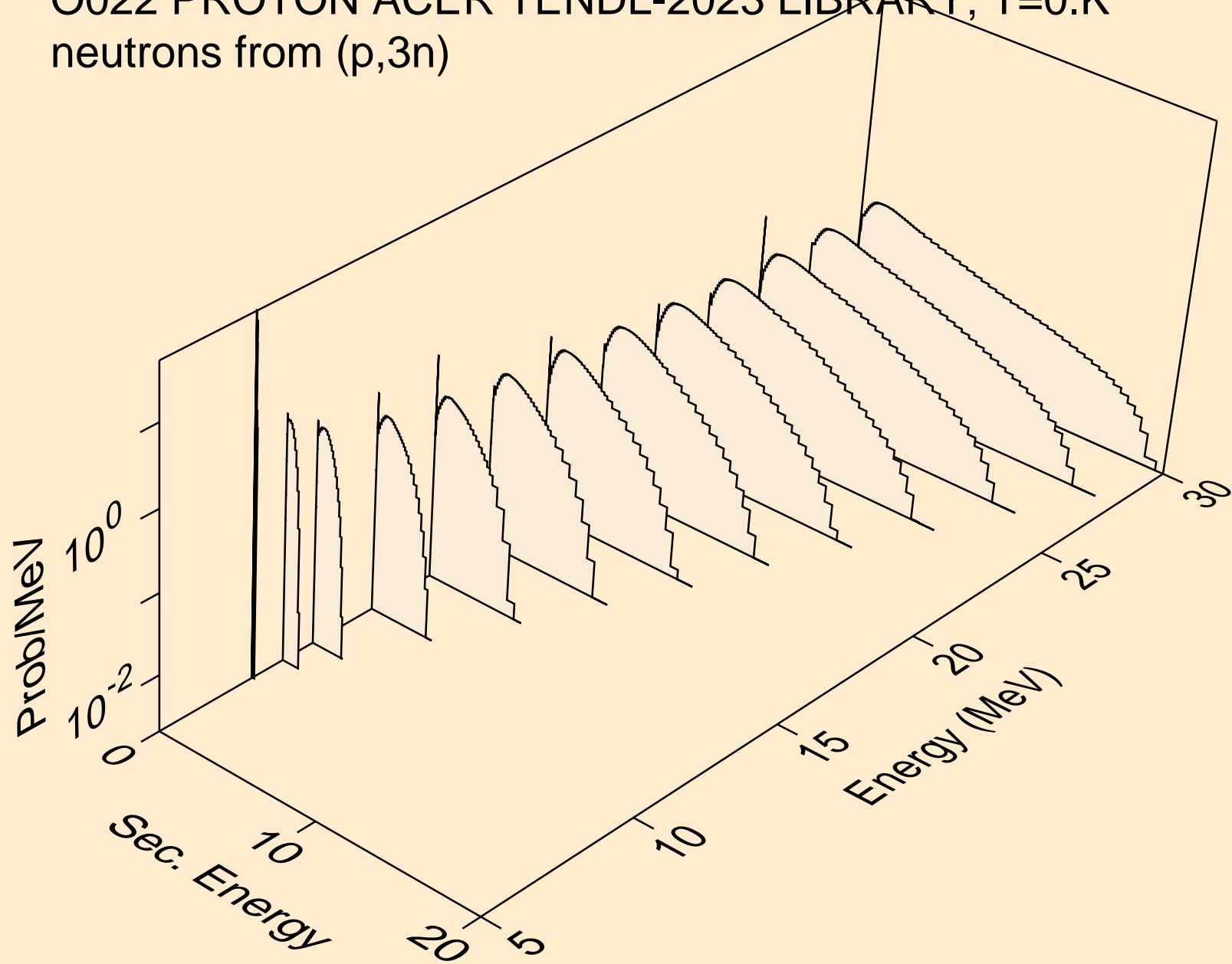


O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)

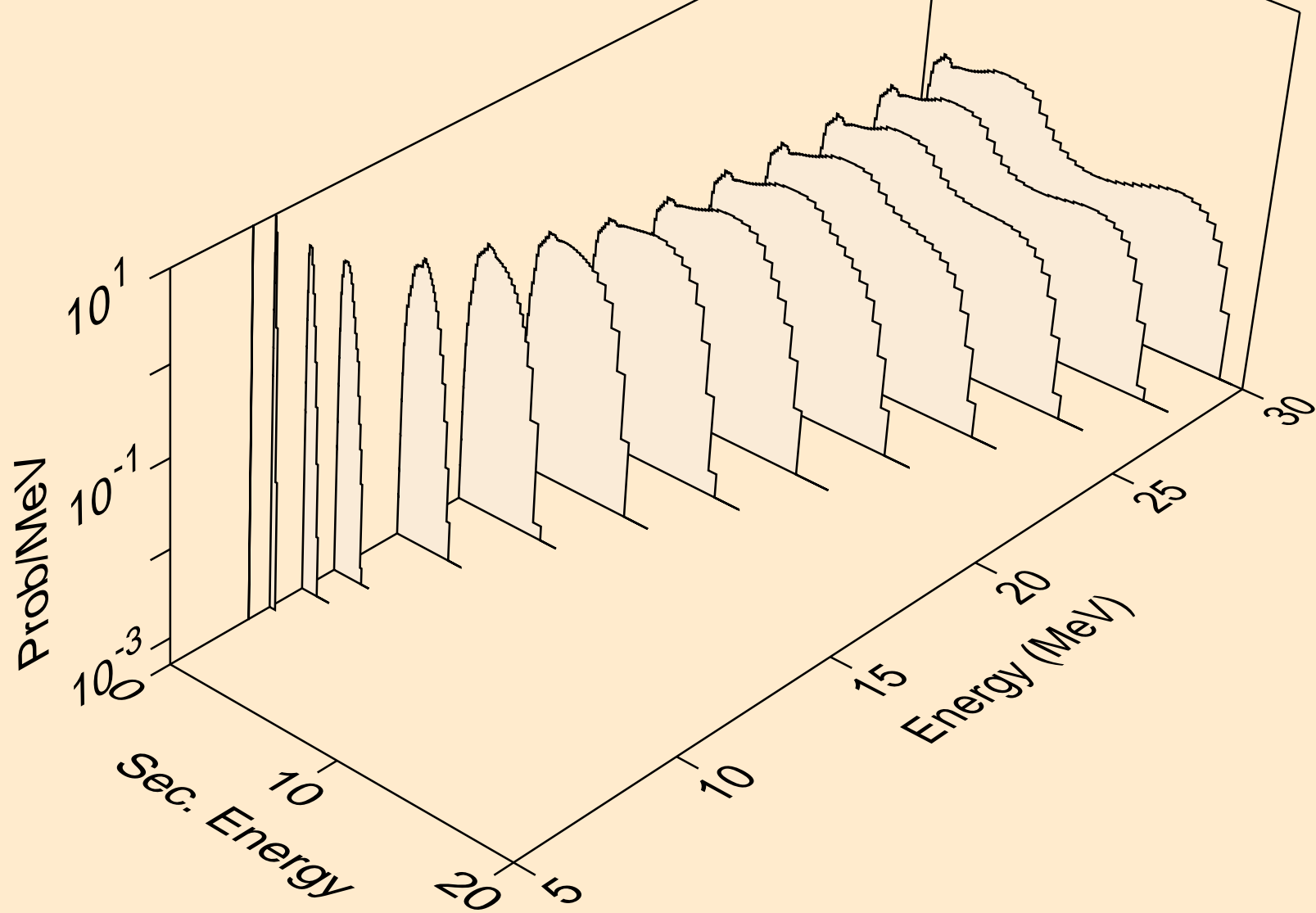




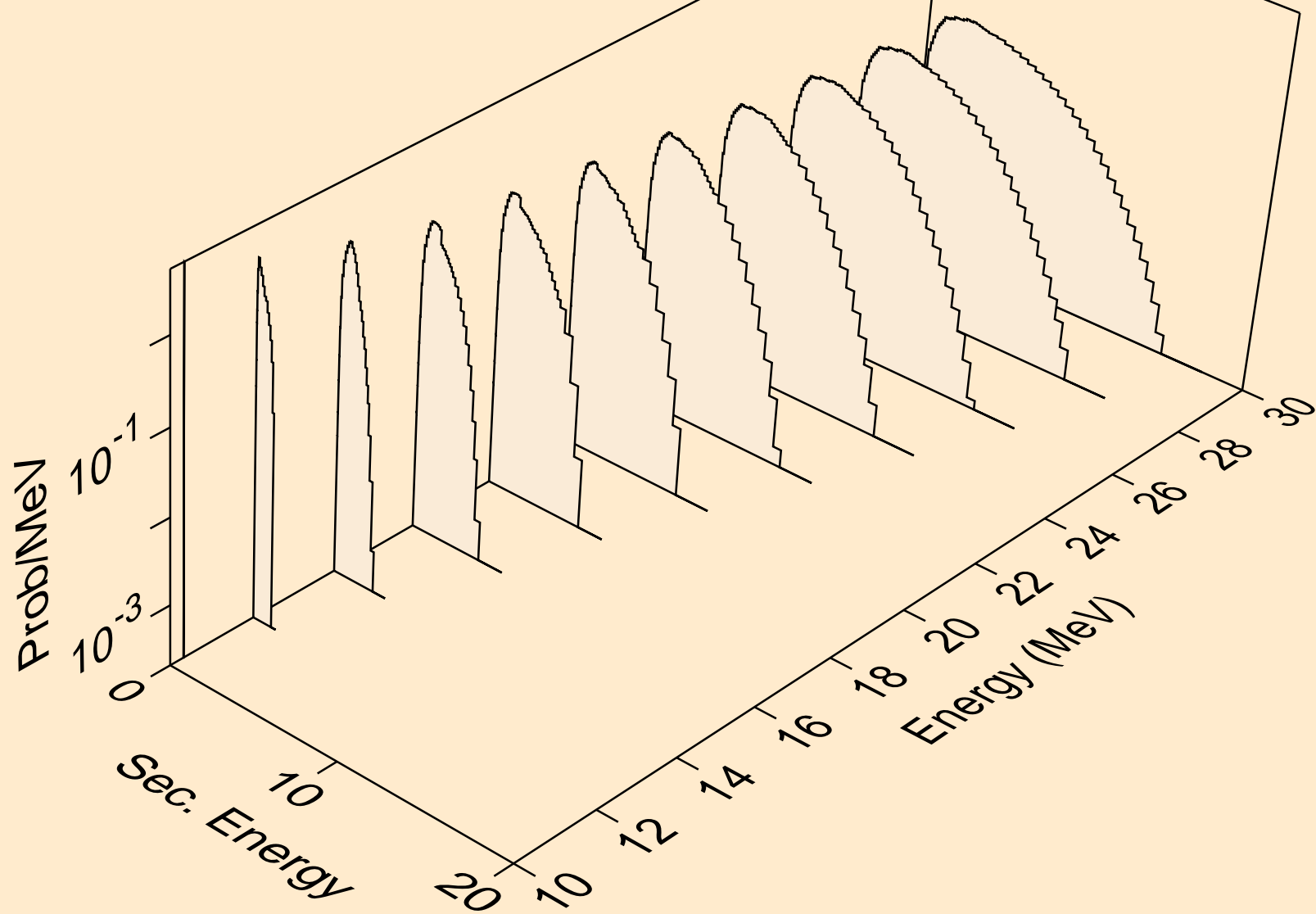
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



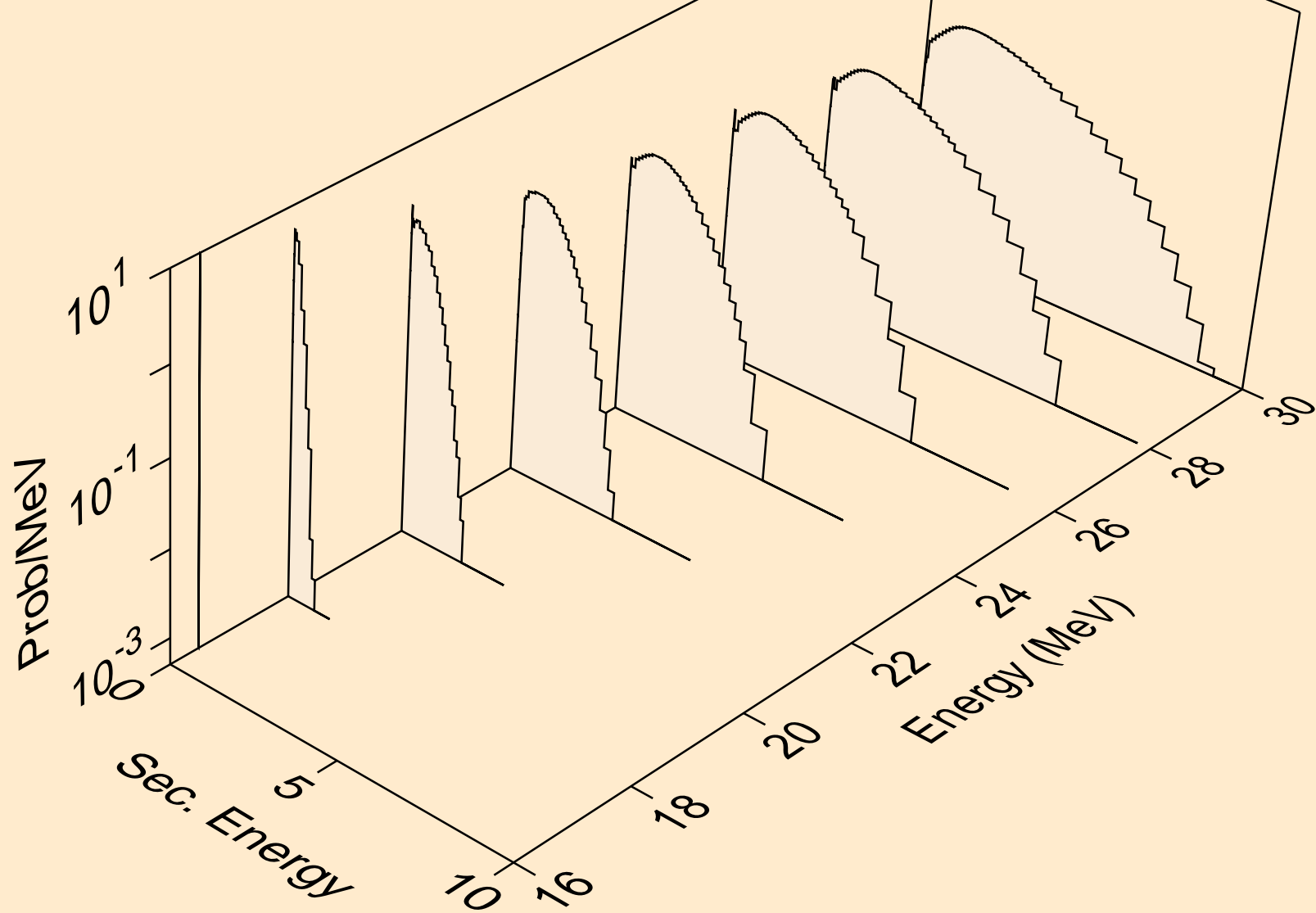
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



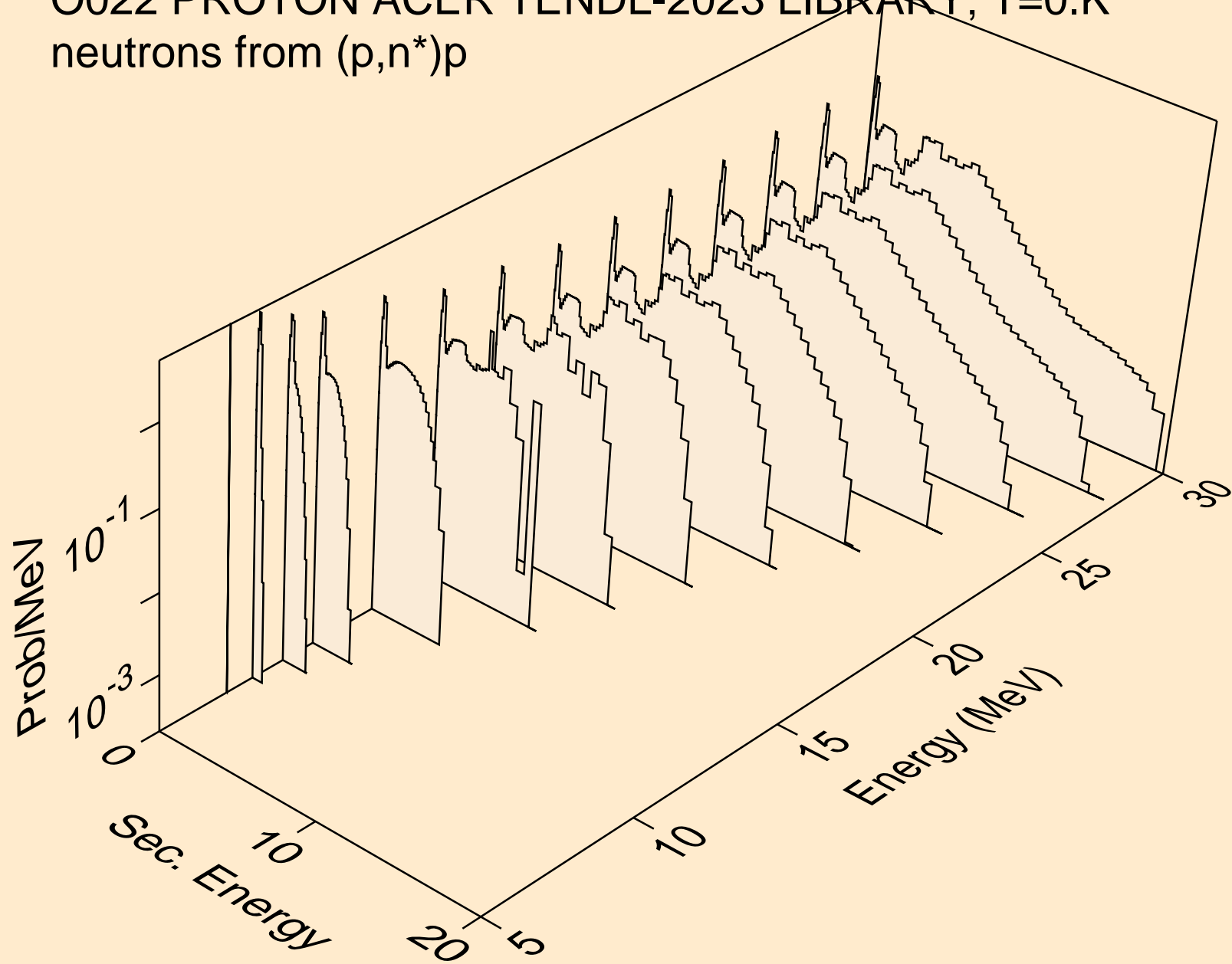
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neutrons from (p,2n)a



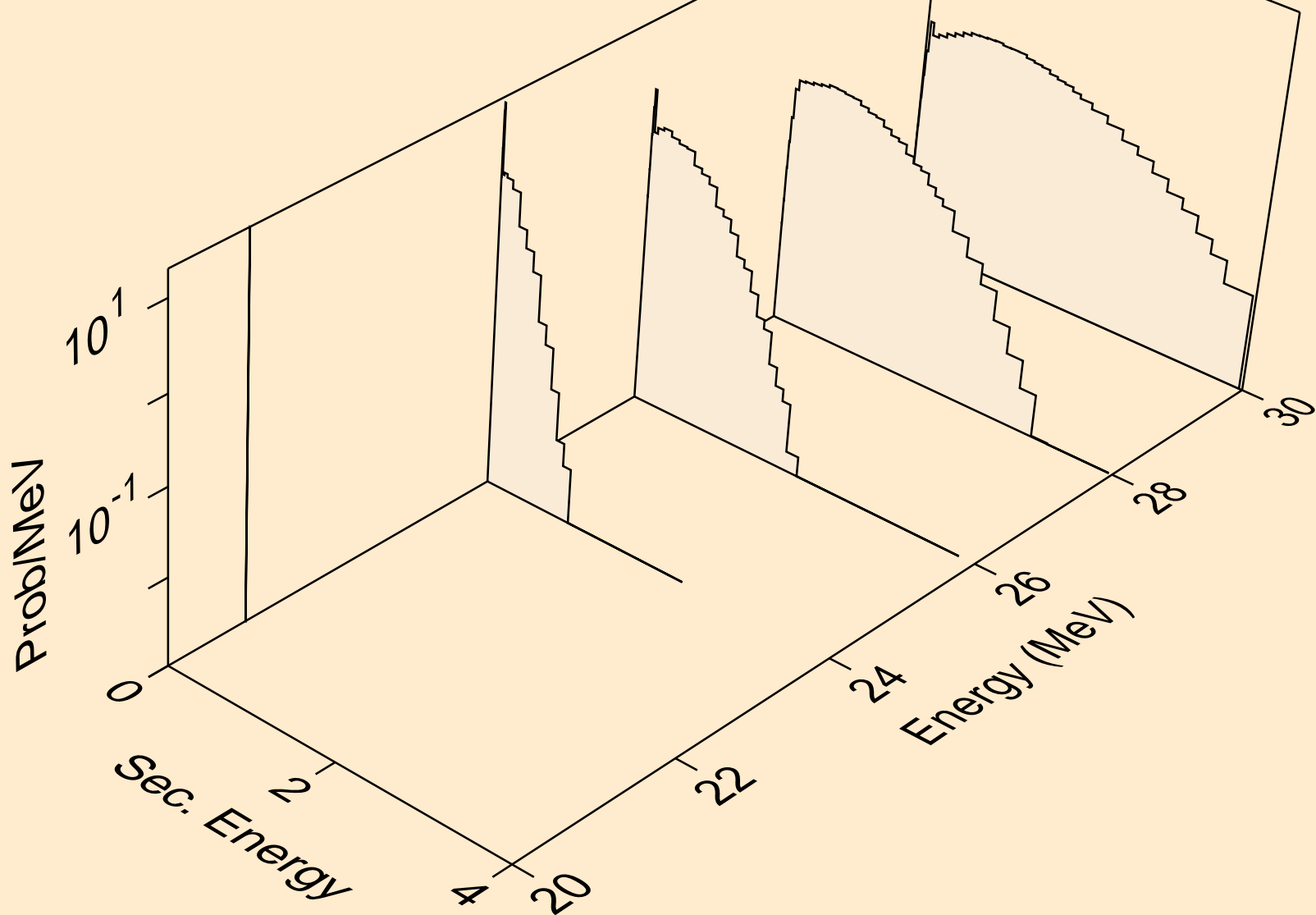
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neutrons from (p,3n)a



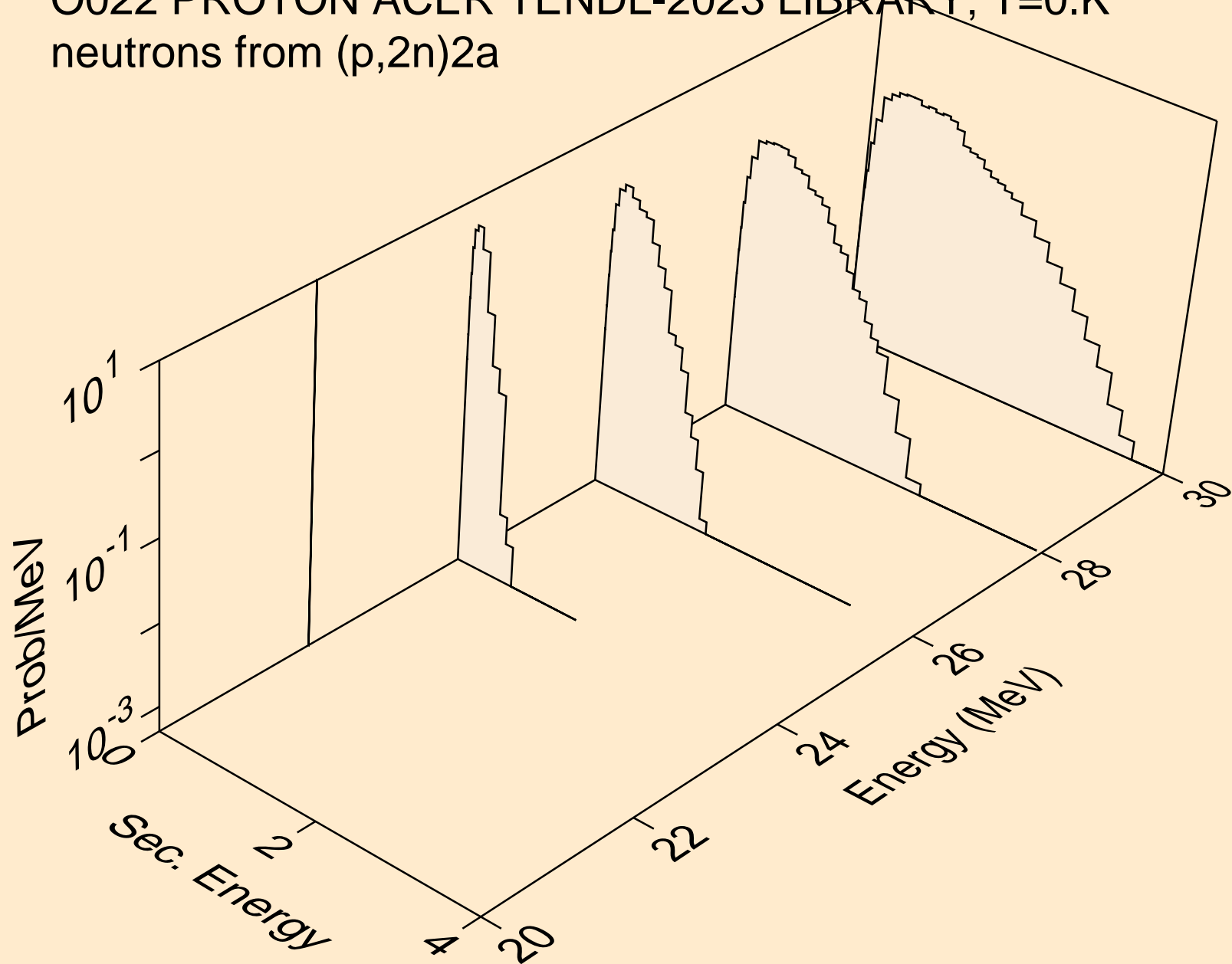
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neutrons from (p,n\*)p



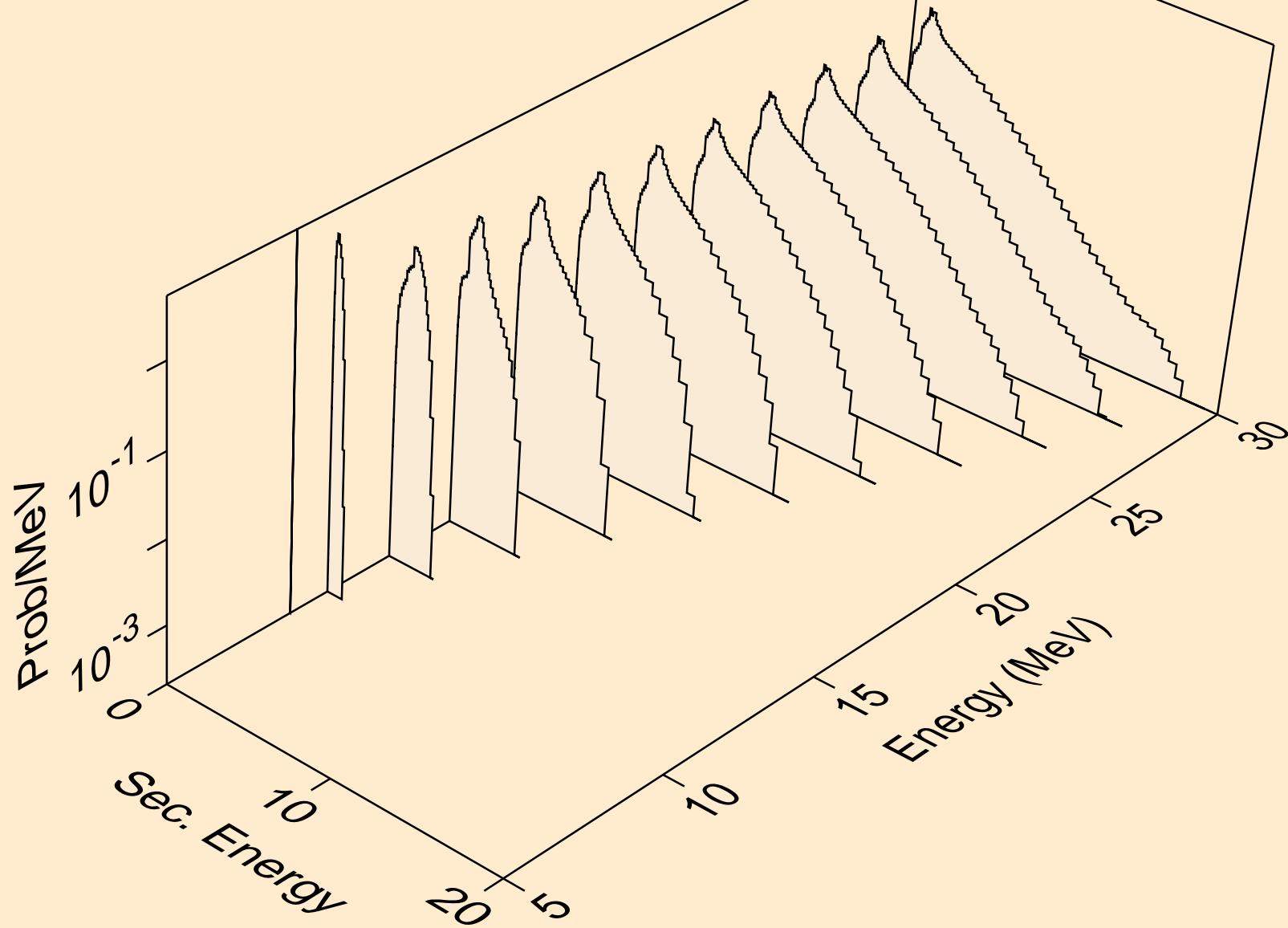
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)2a



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)2a

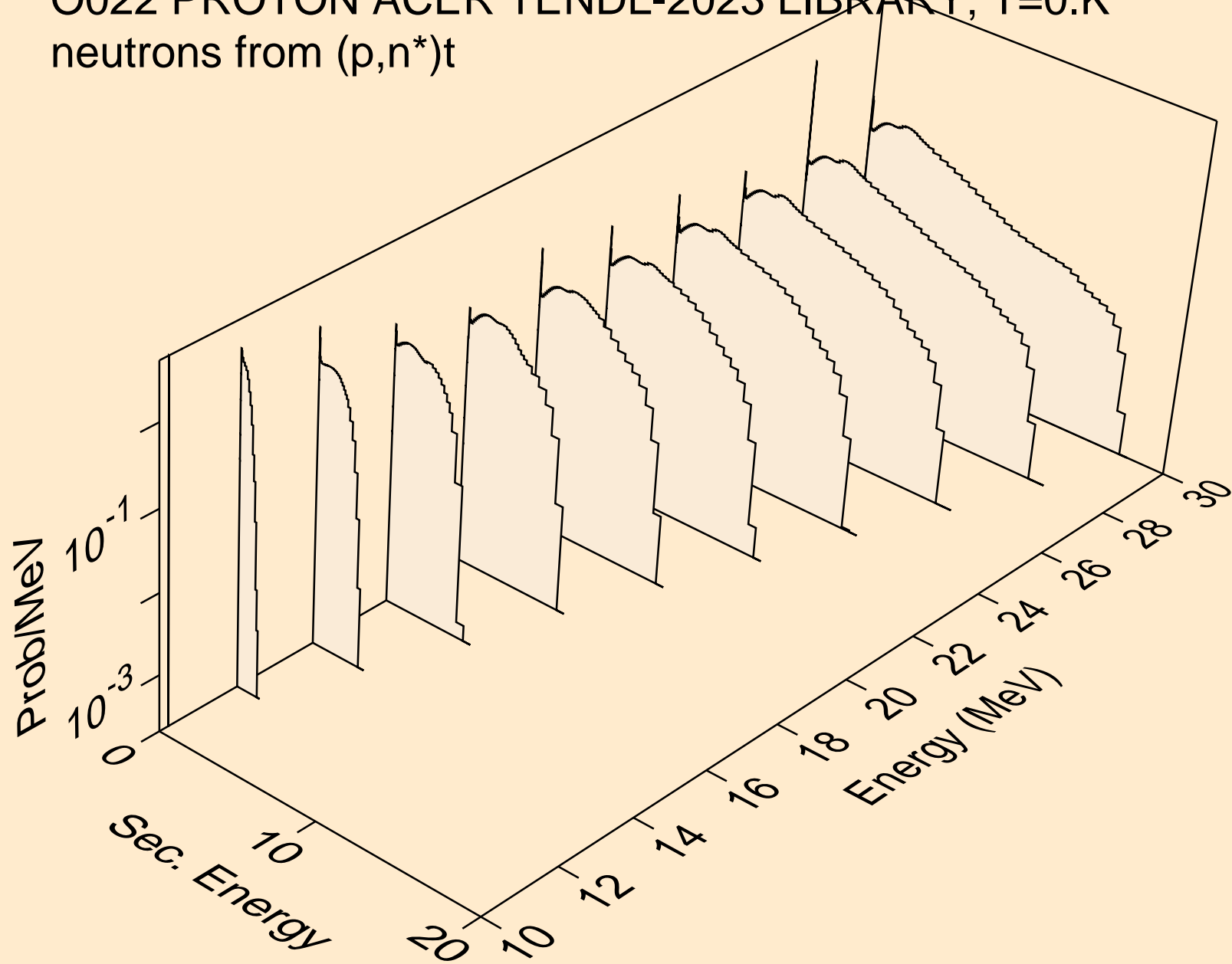


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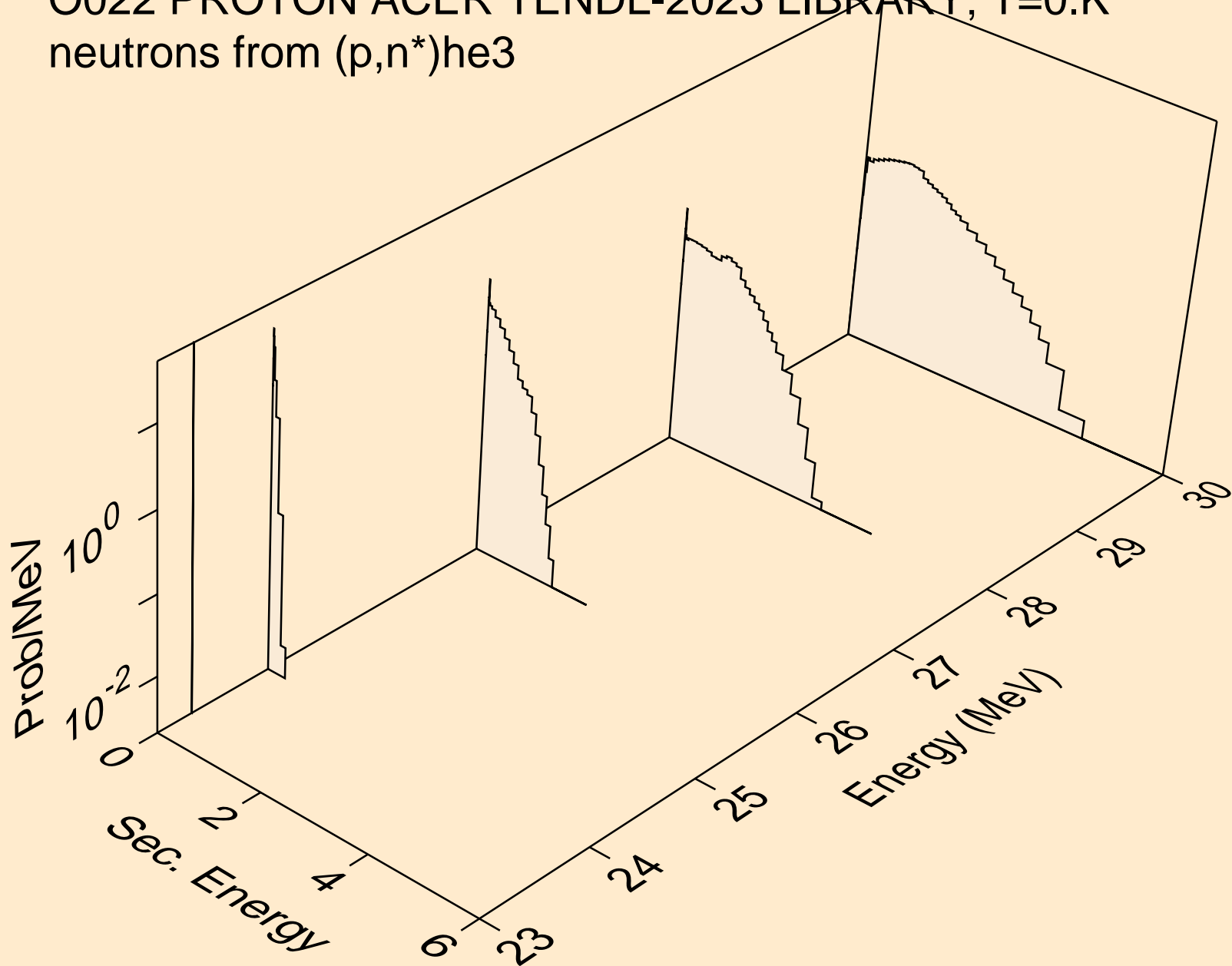




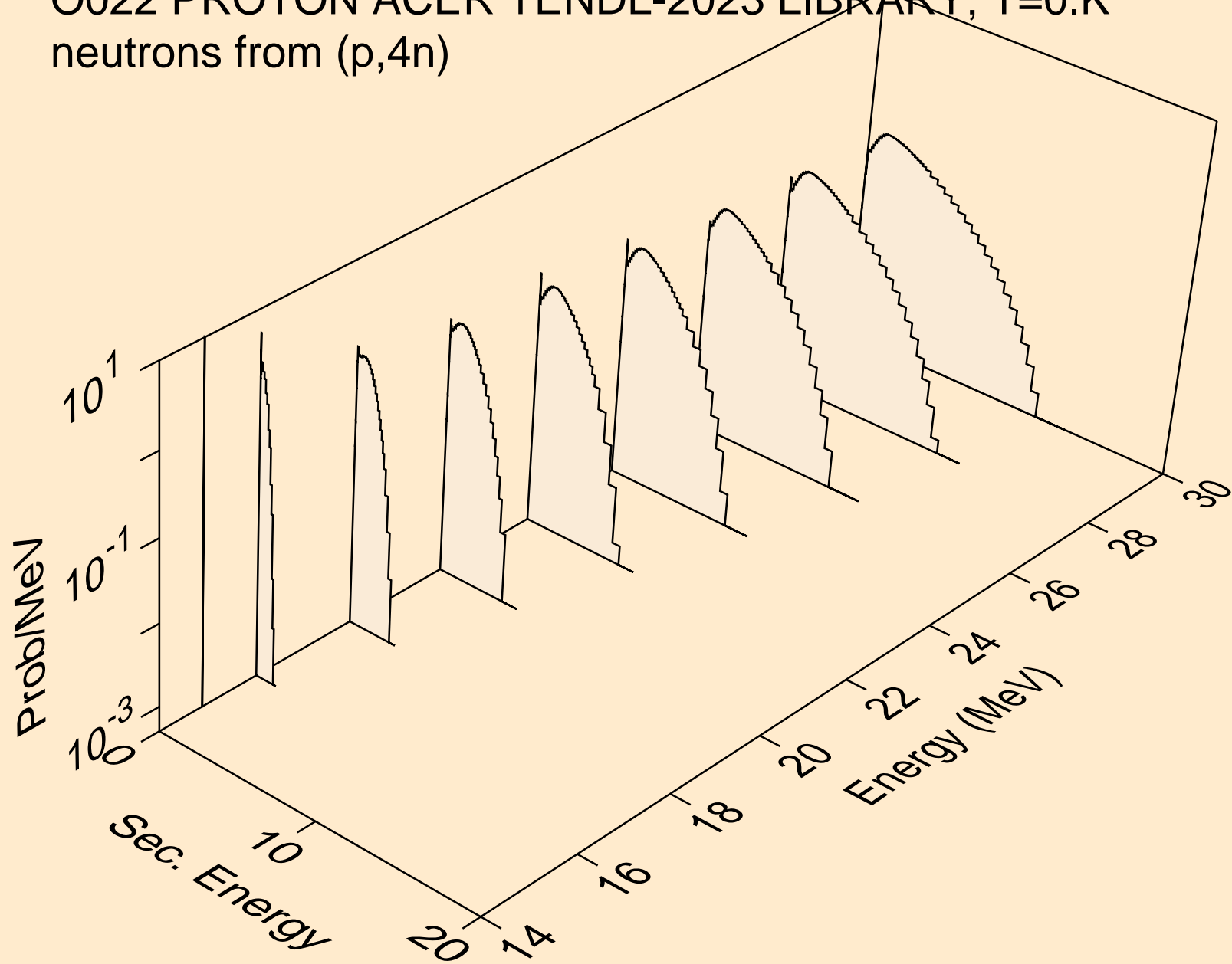
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neutrons from (p,n\*)t



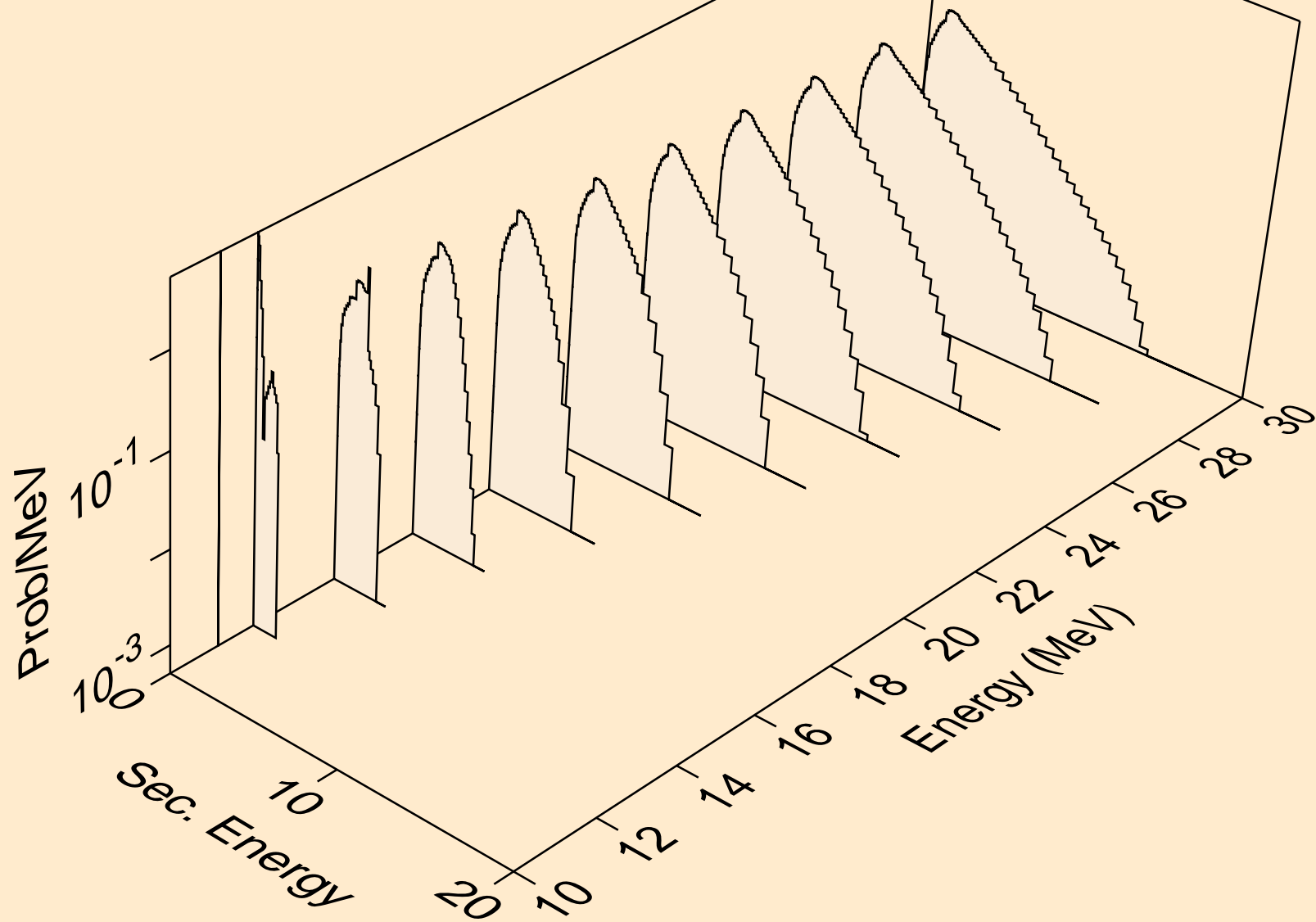
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neutrons from (p,n\*)he3



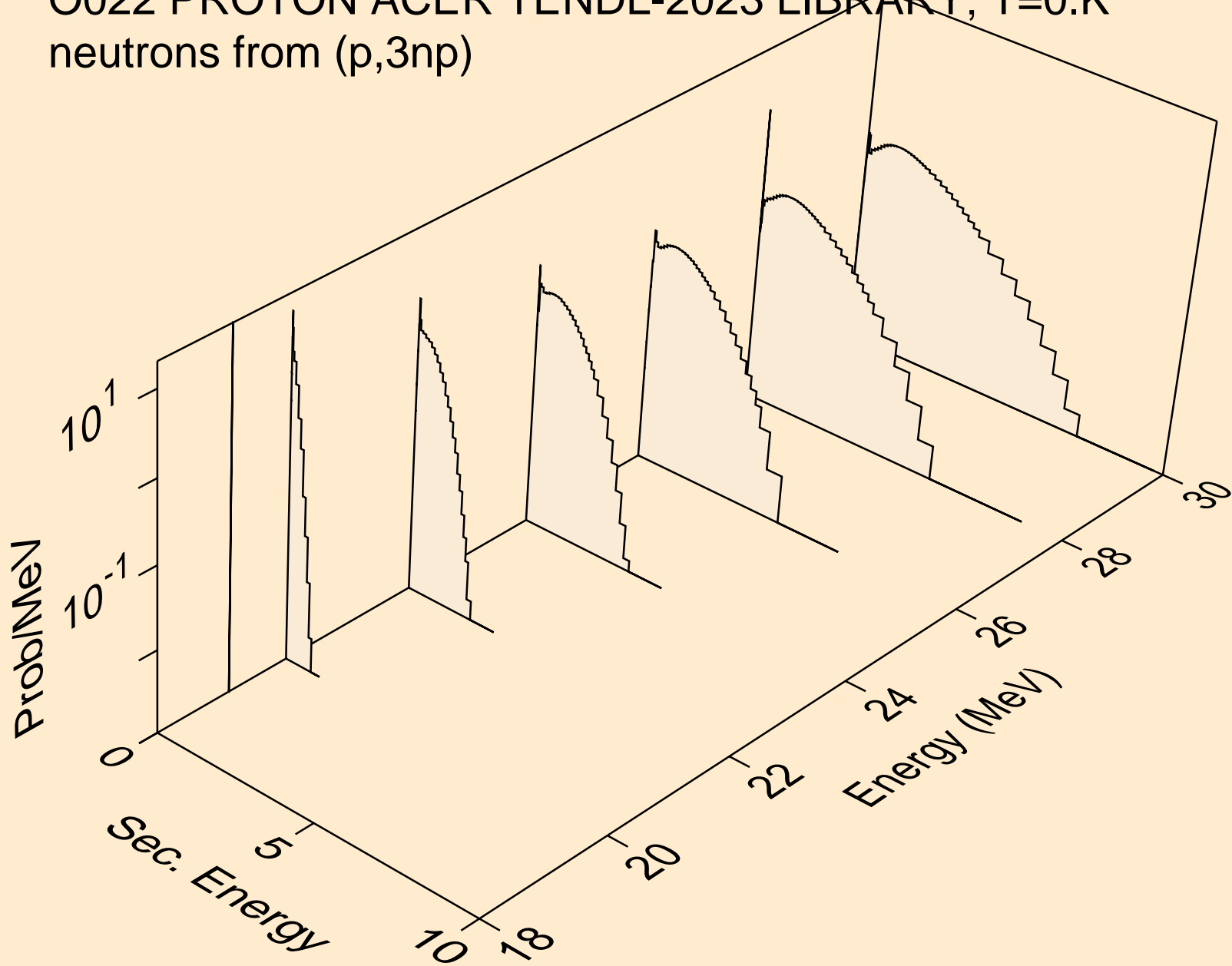
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,4n)



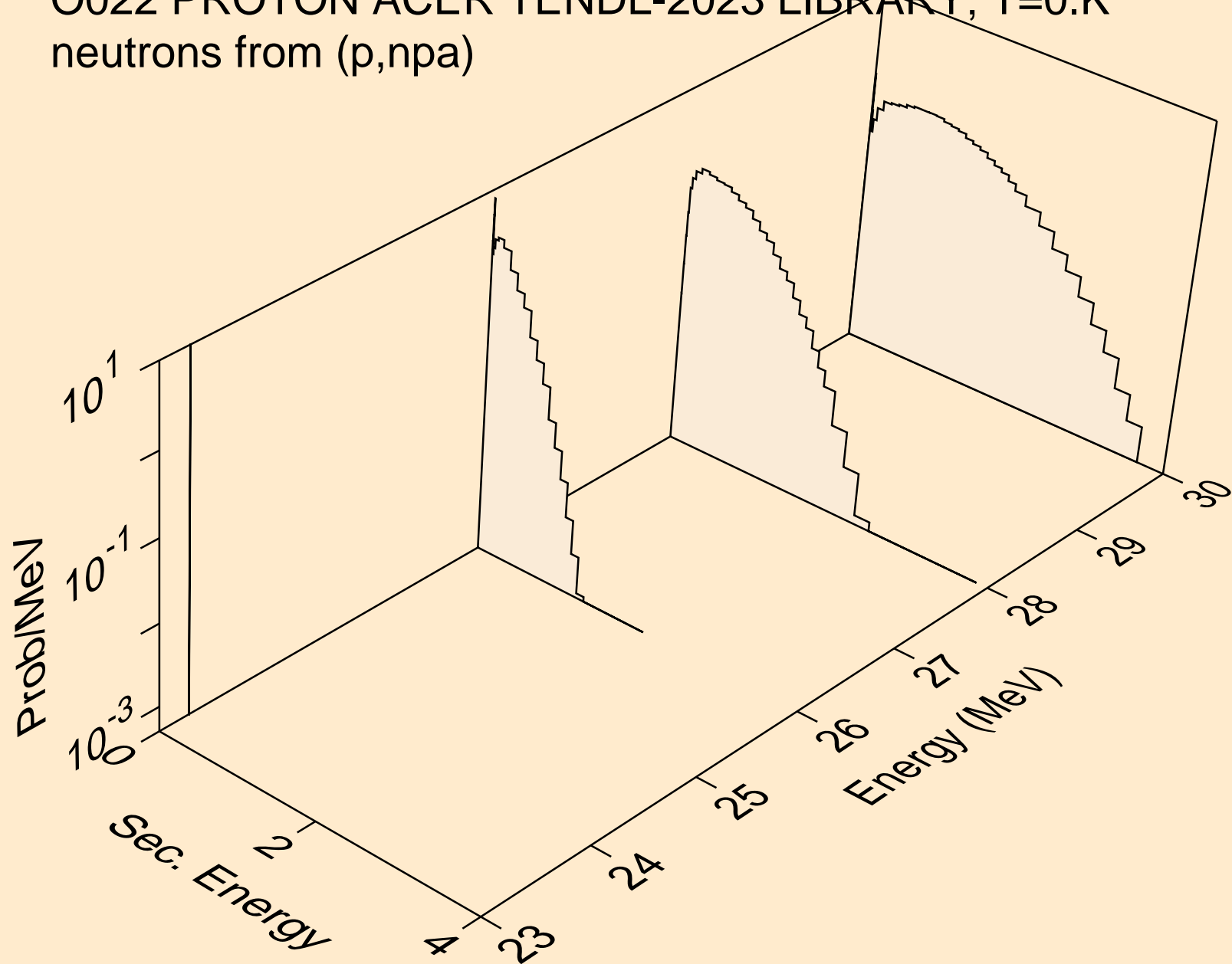
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



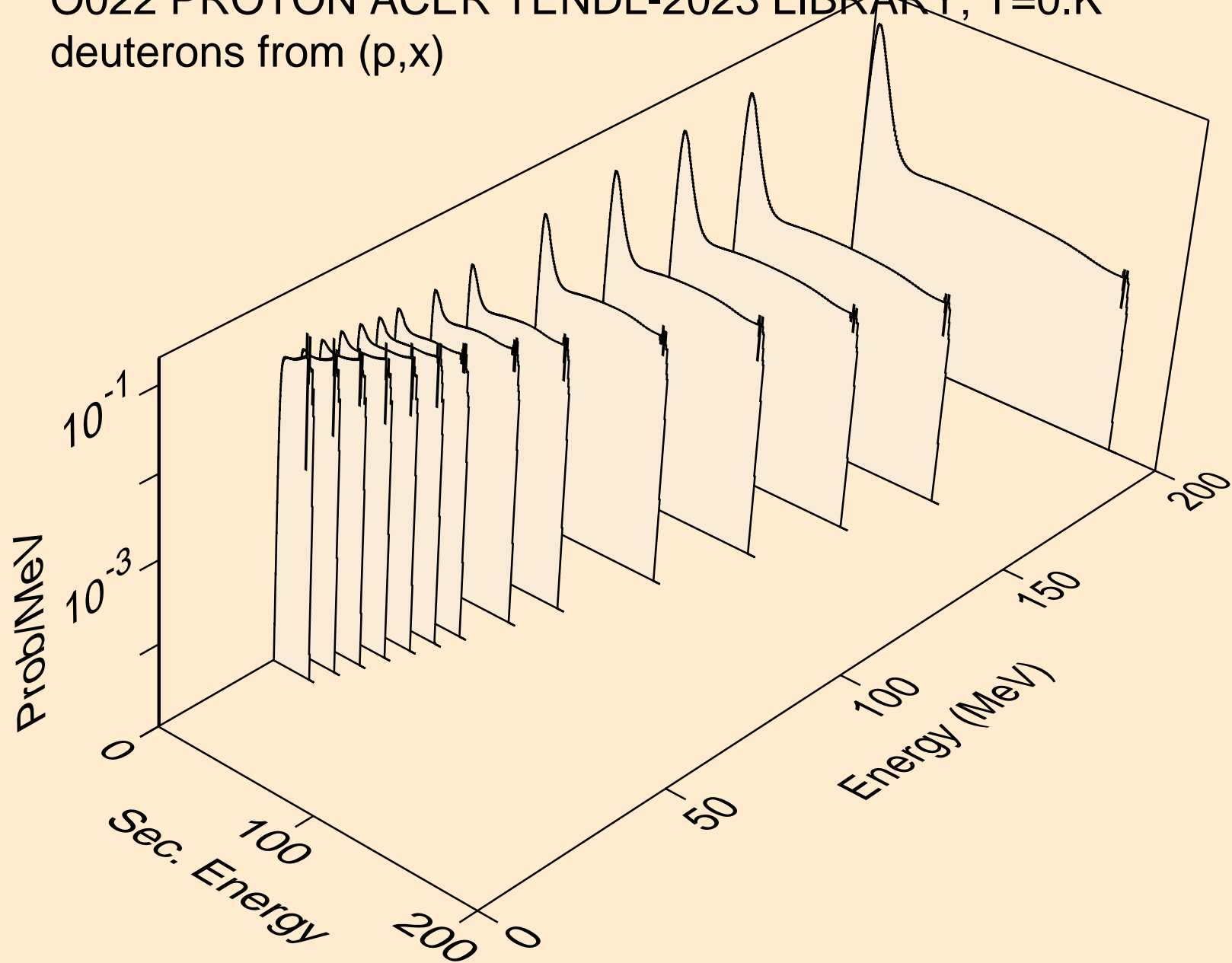
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)



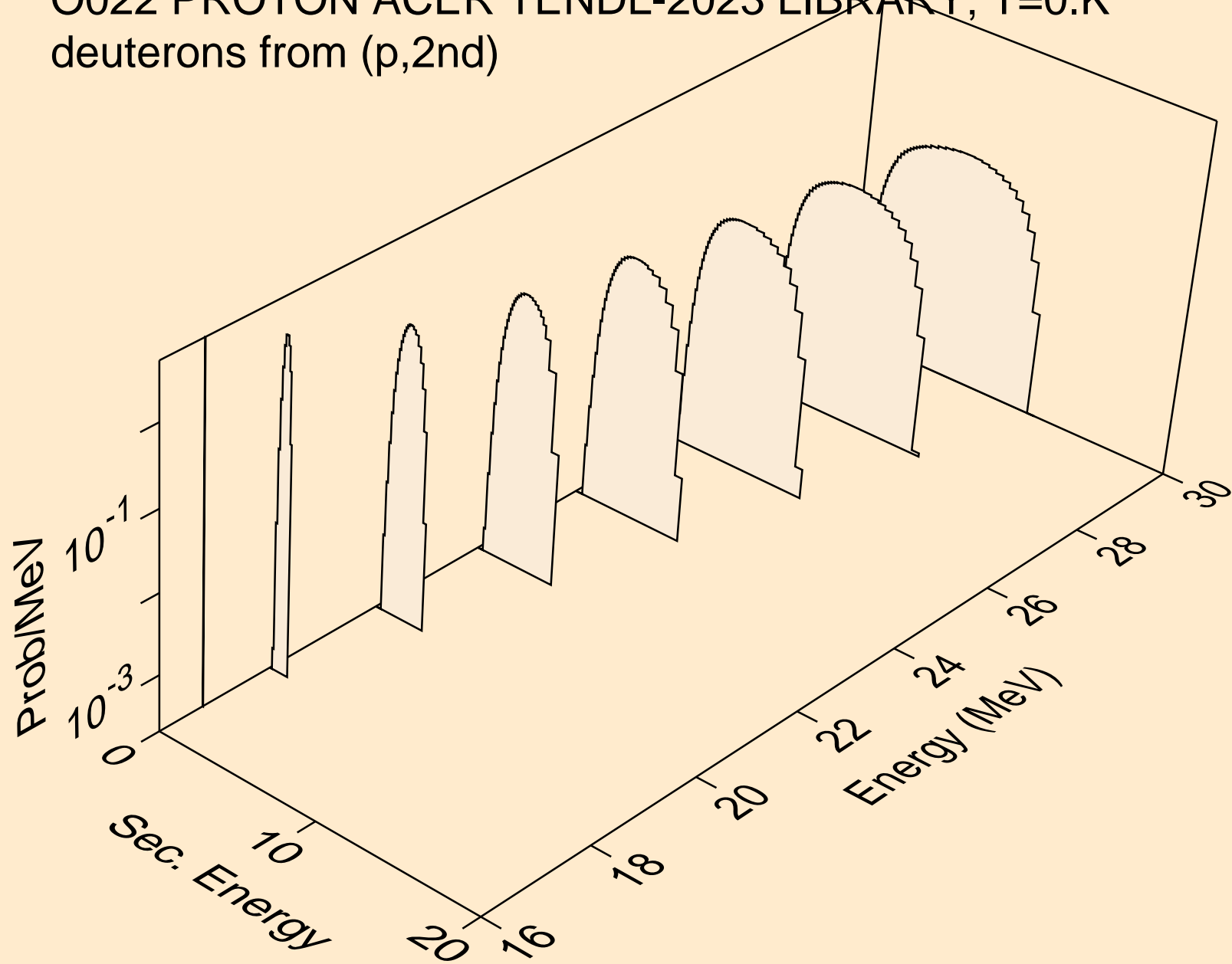
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)

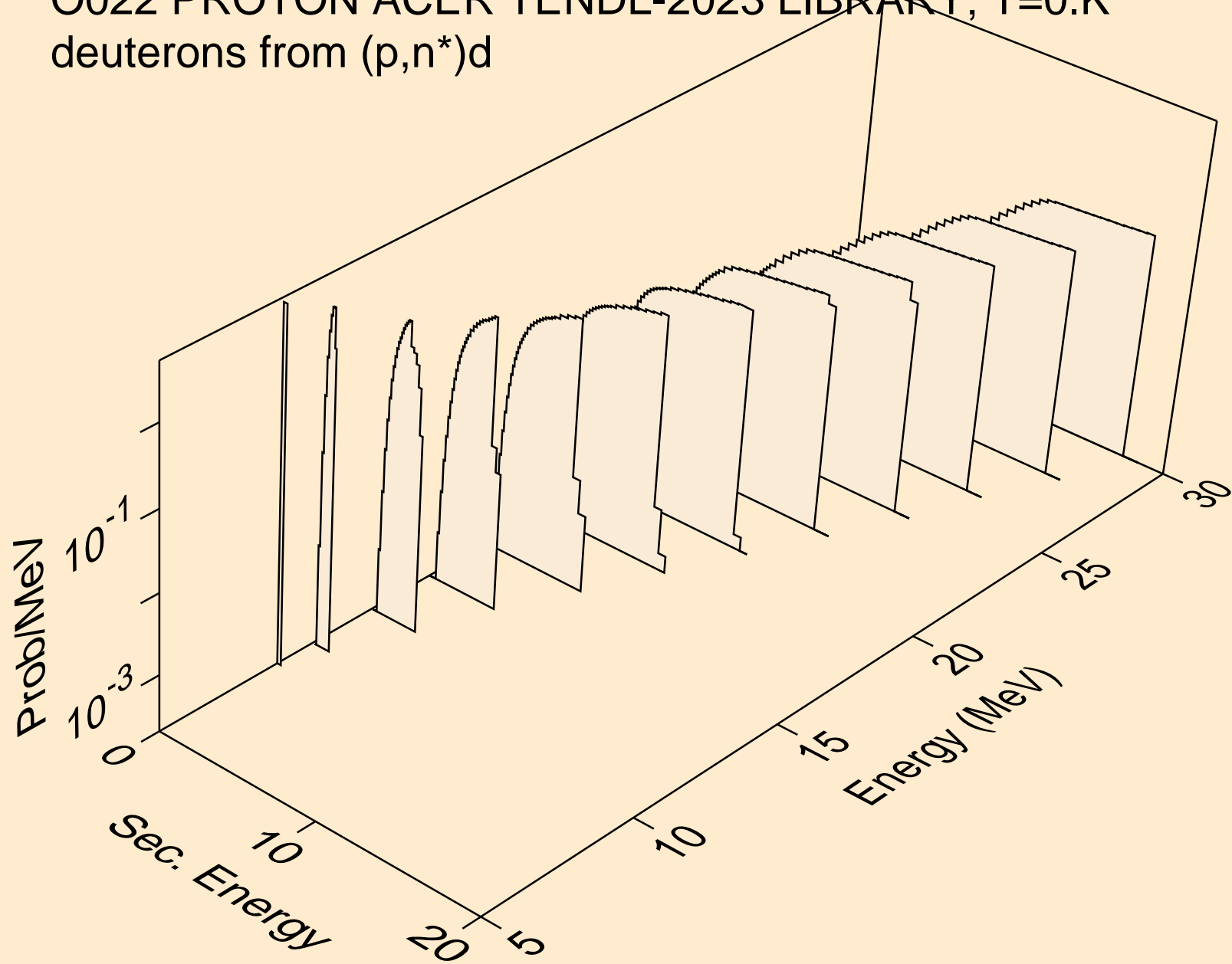


O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,2nd)

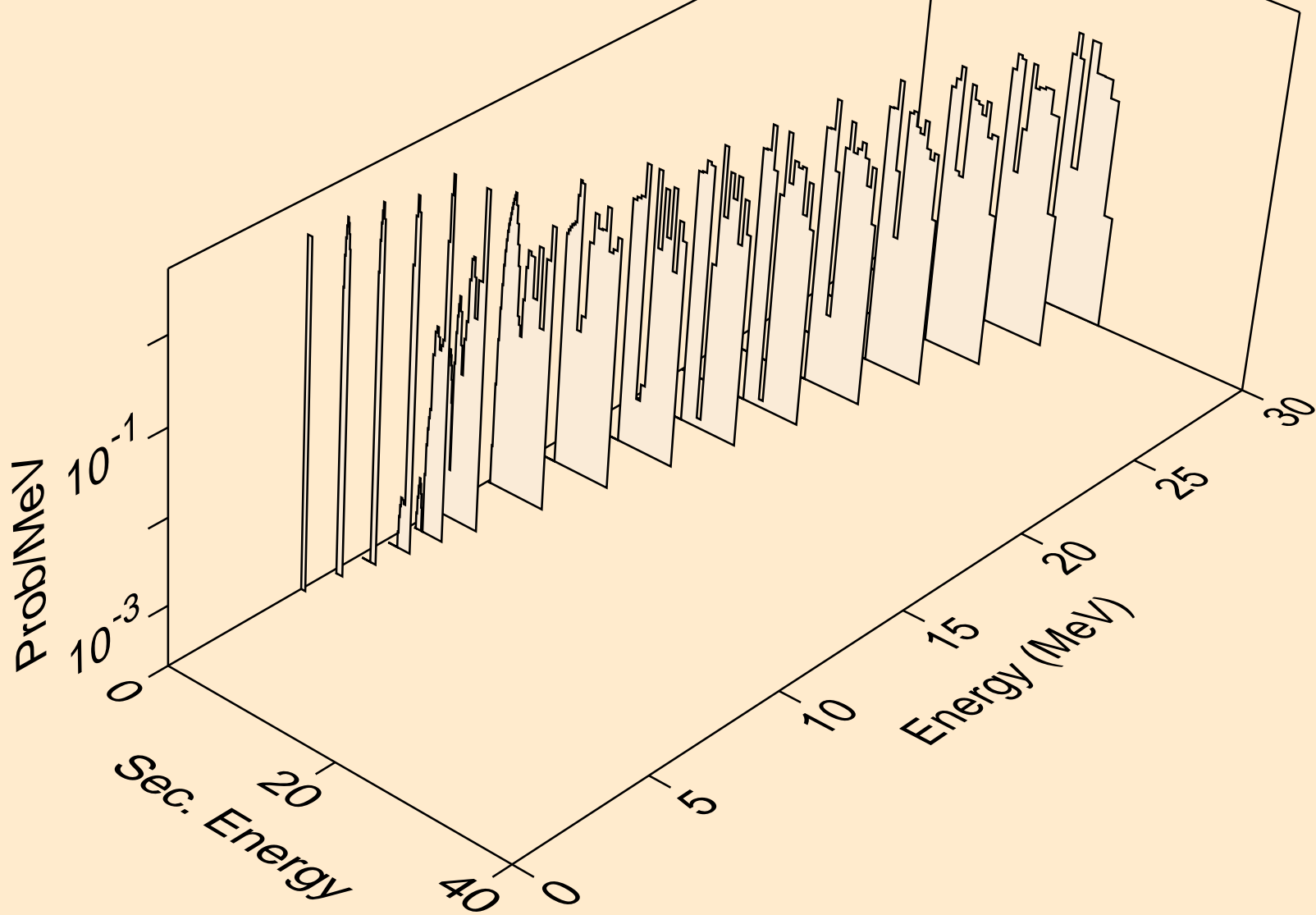




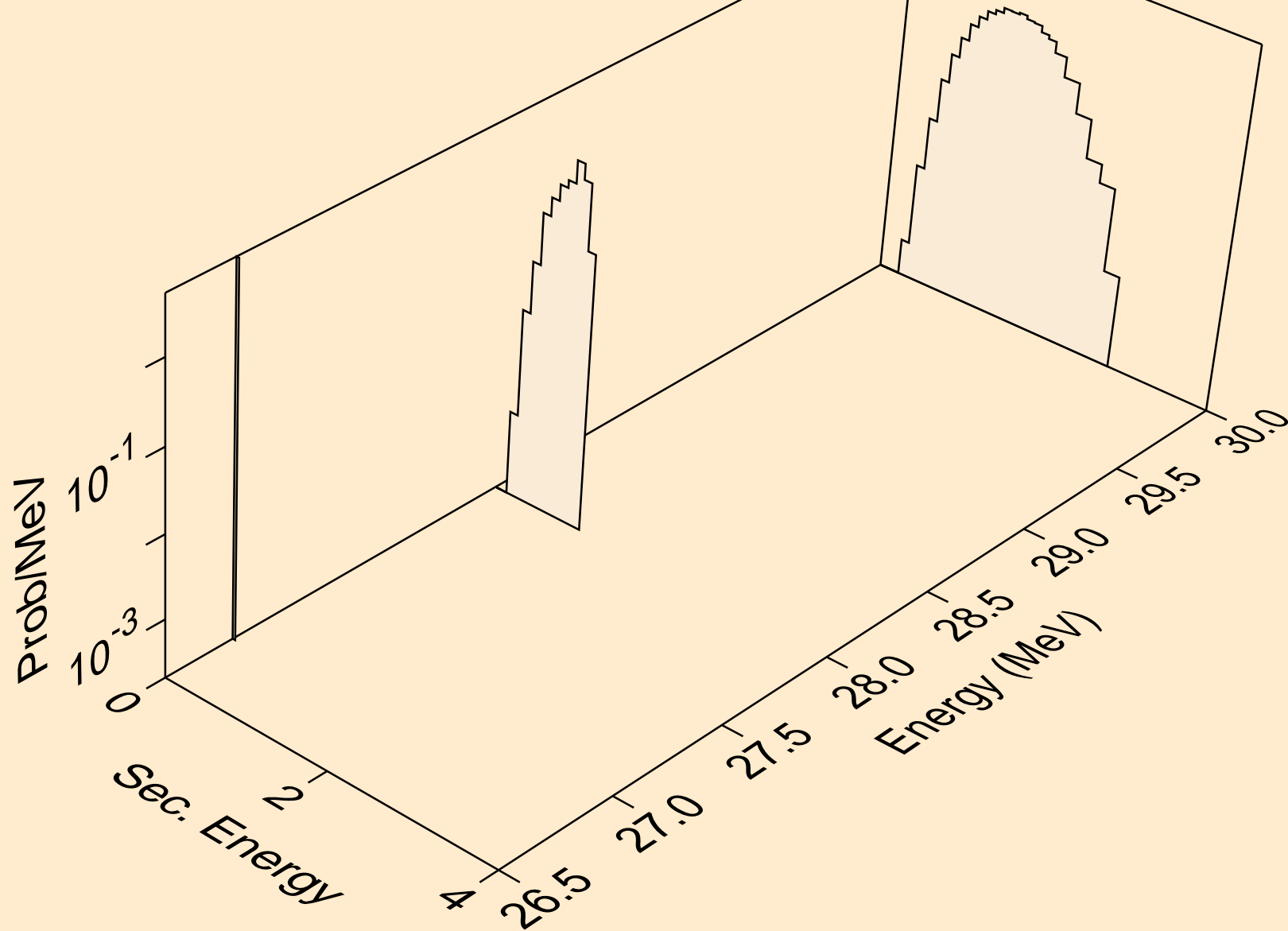
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d



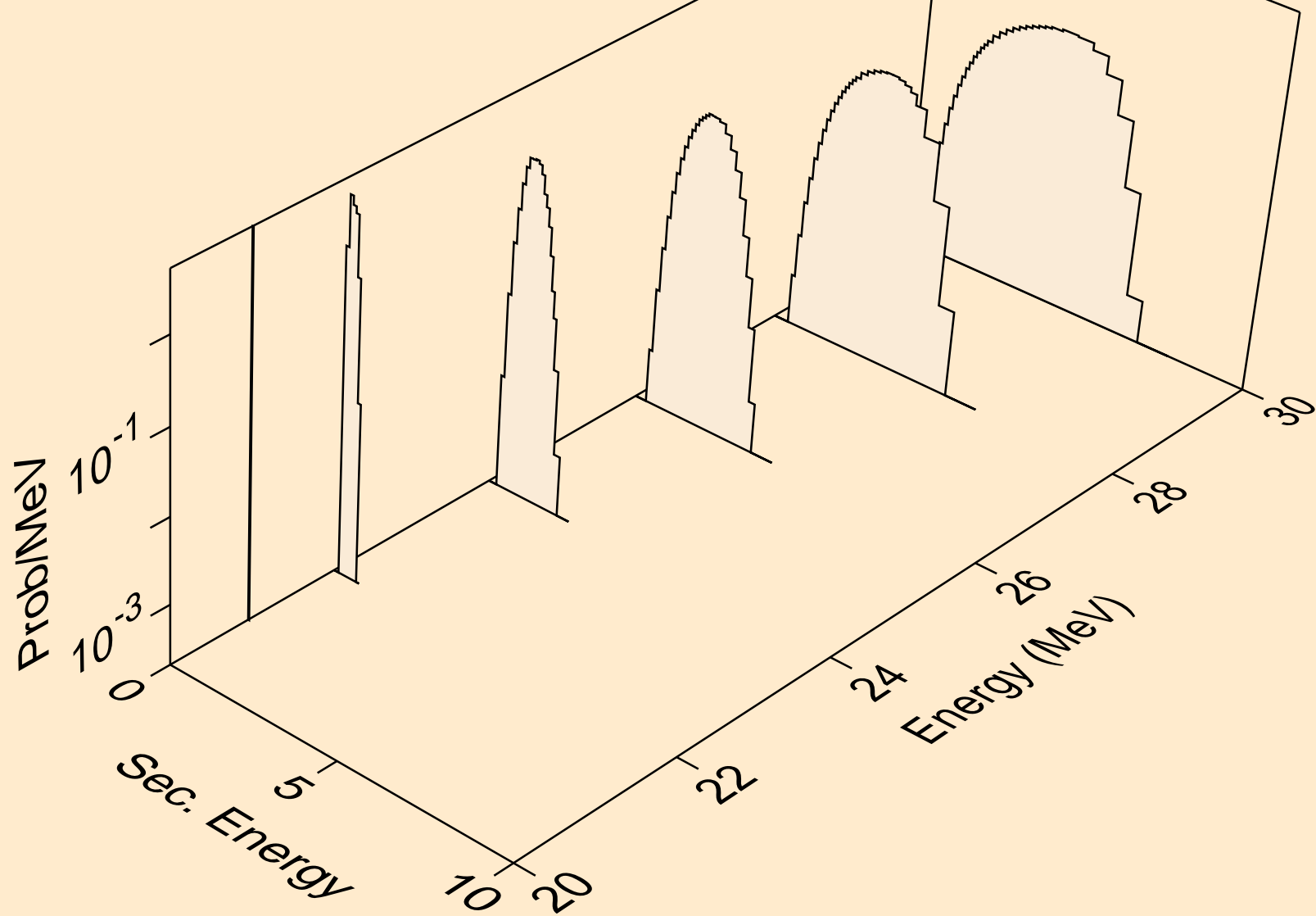
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deuterons from (p,d)



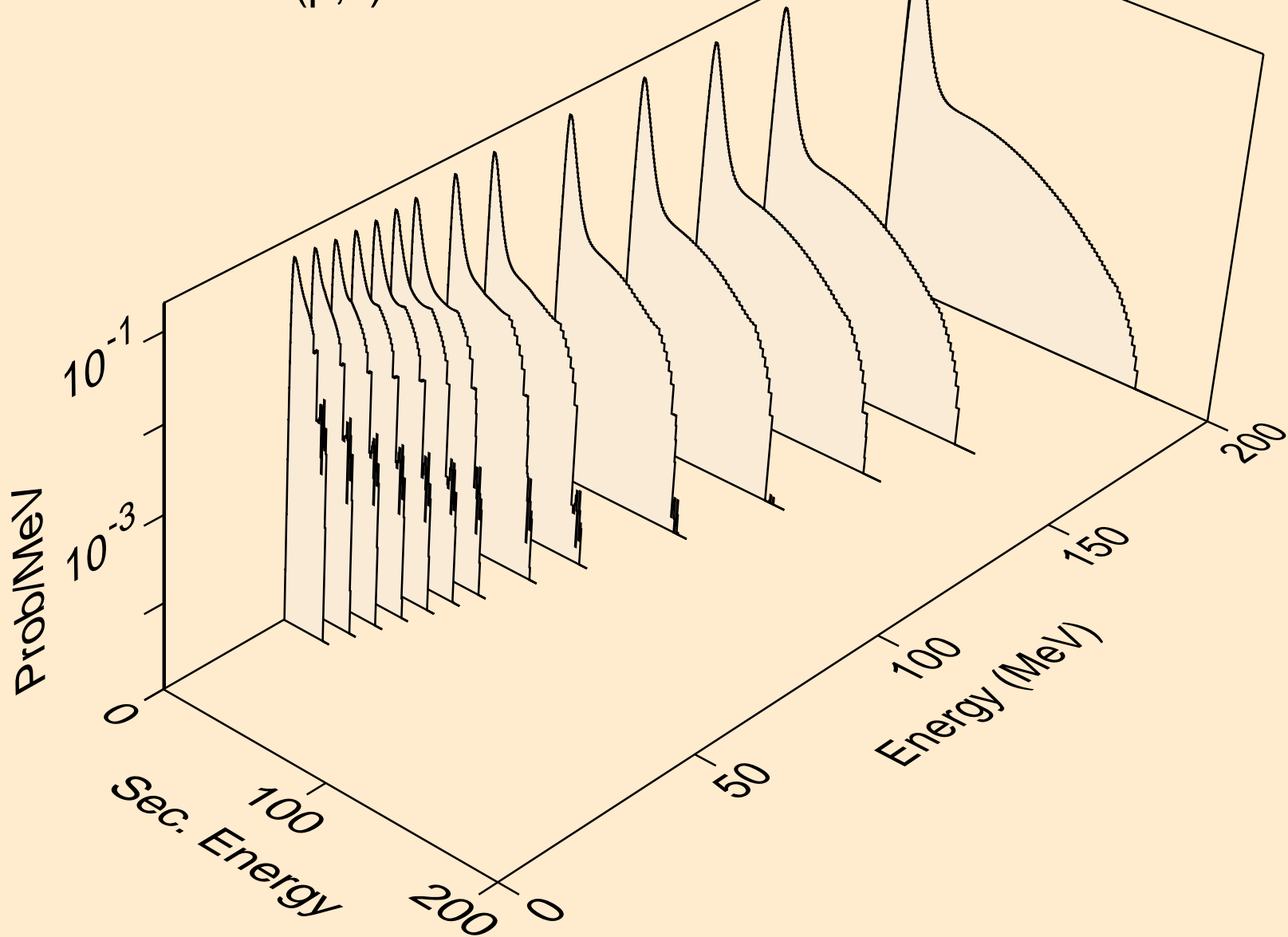
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deuterons from (p,pd)



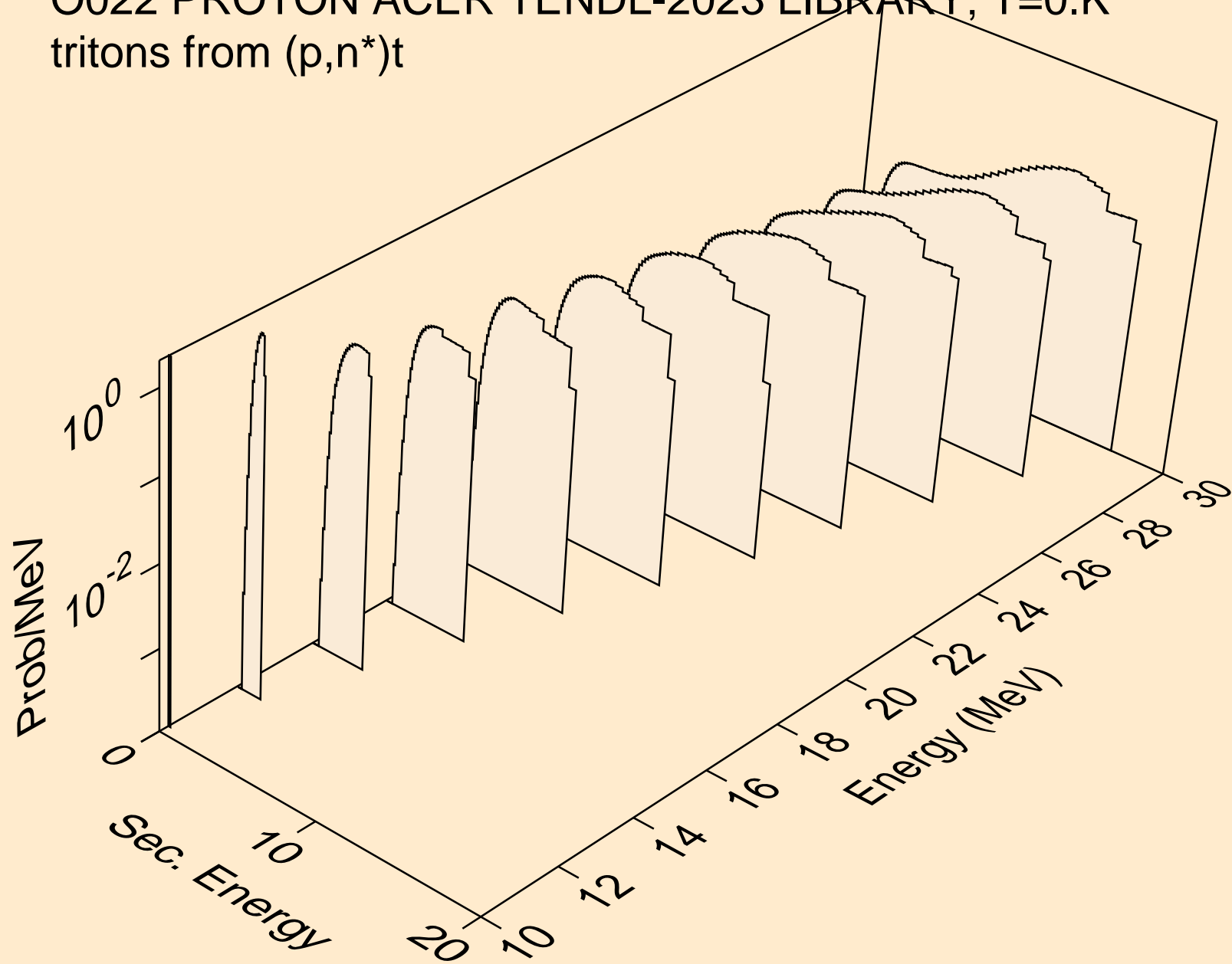
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deuterons from (p,da)



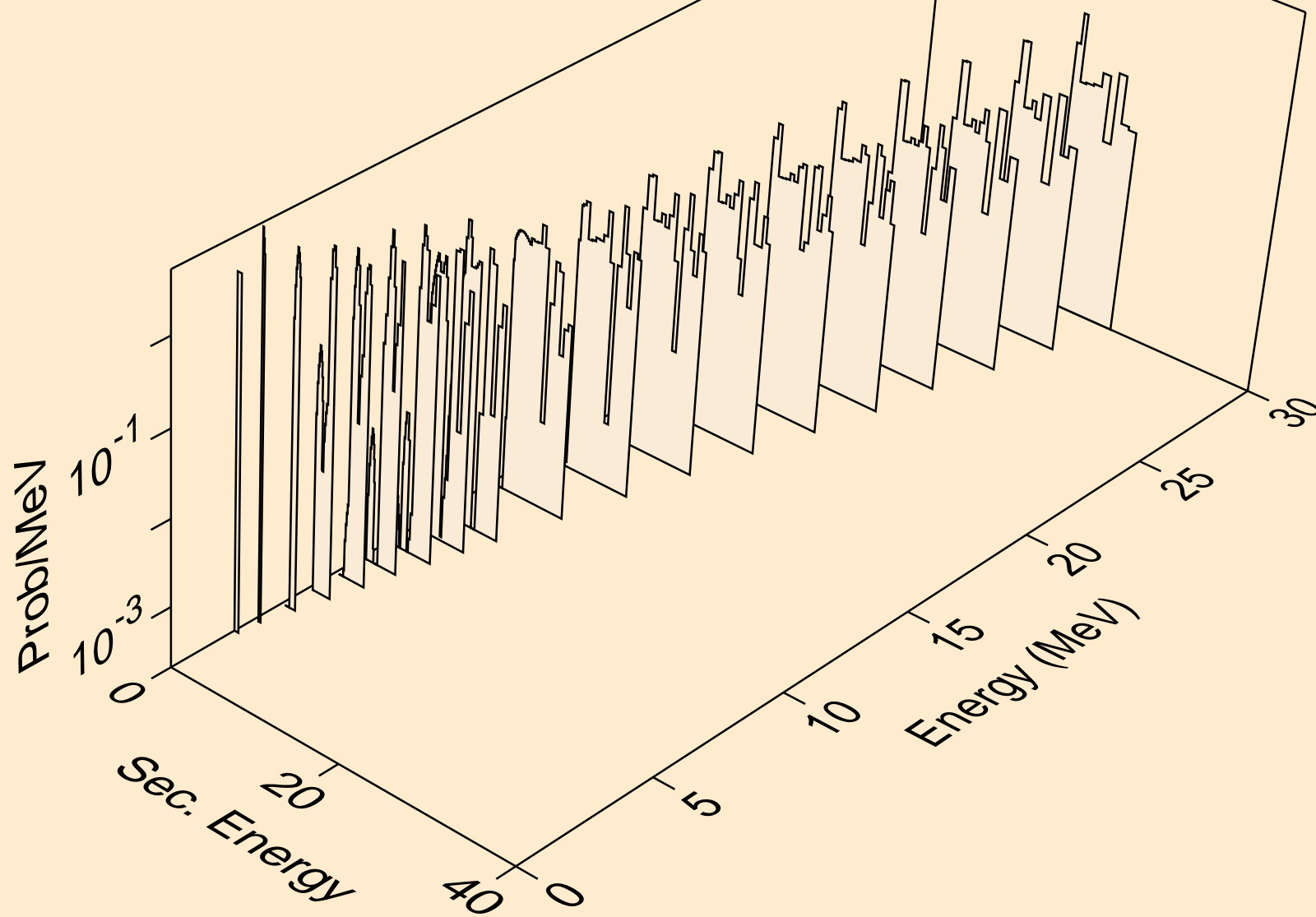
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tritons from (p,x)



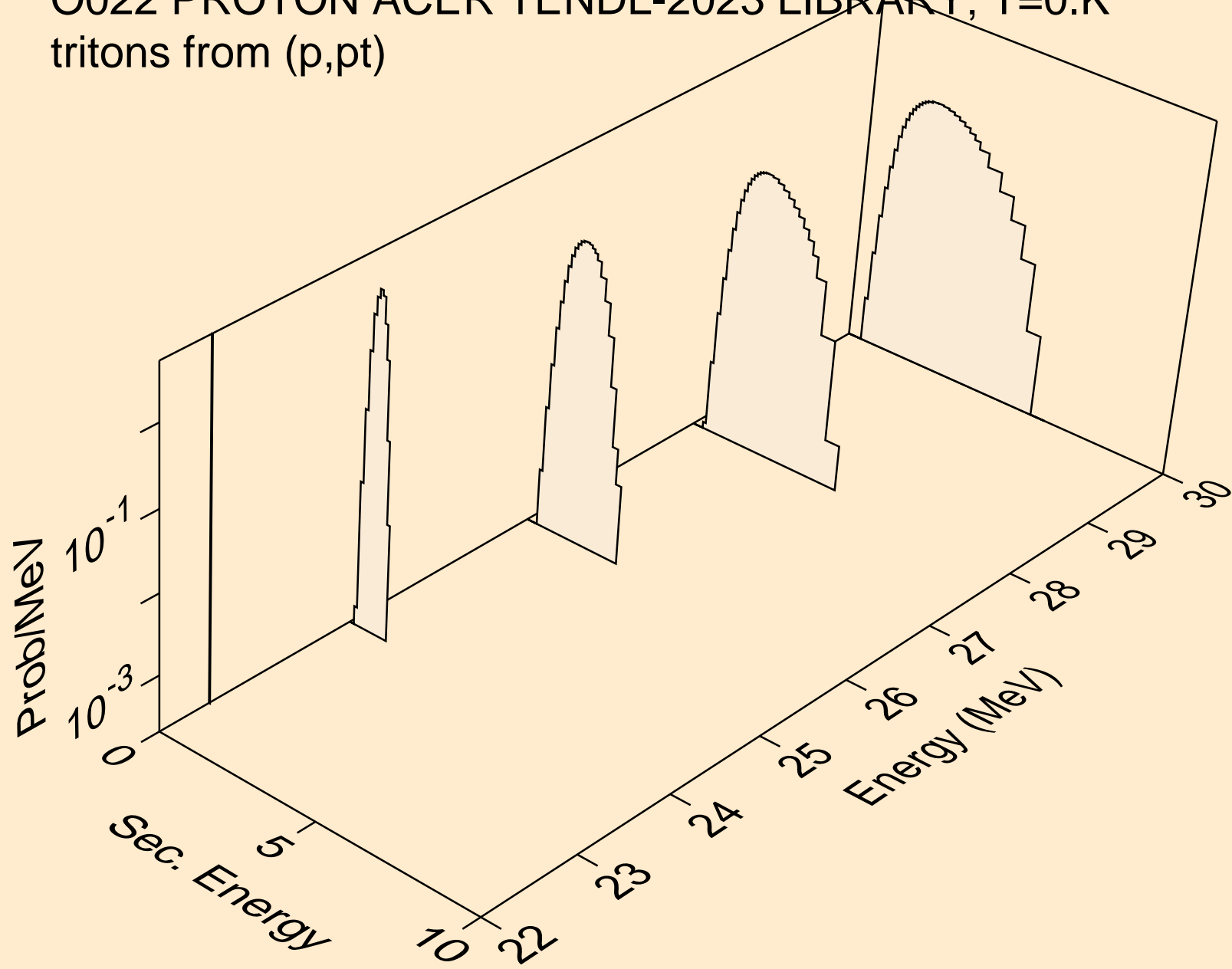
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)

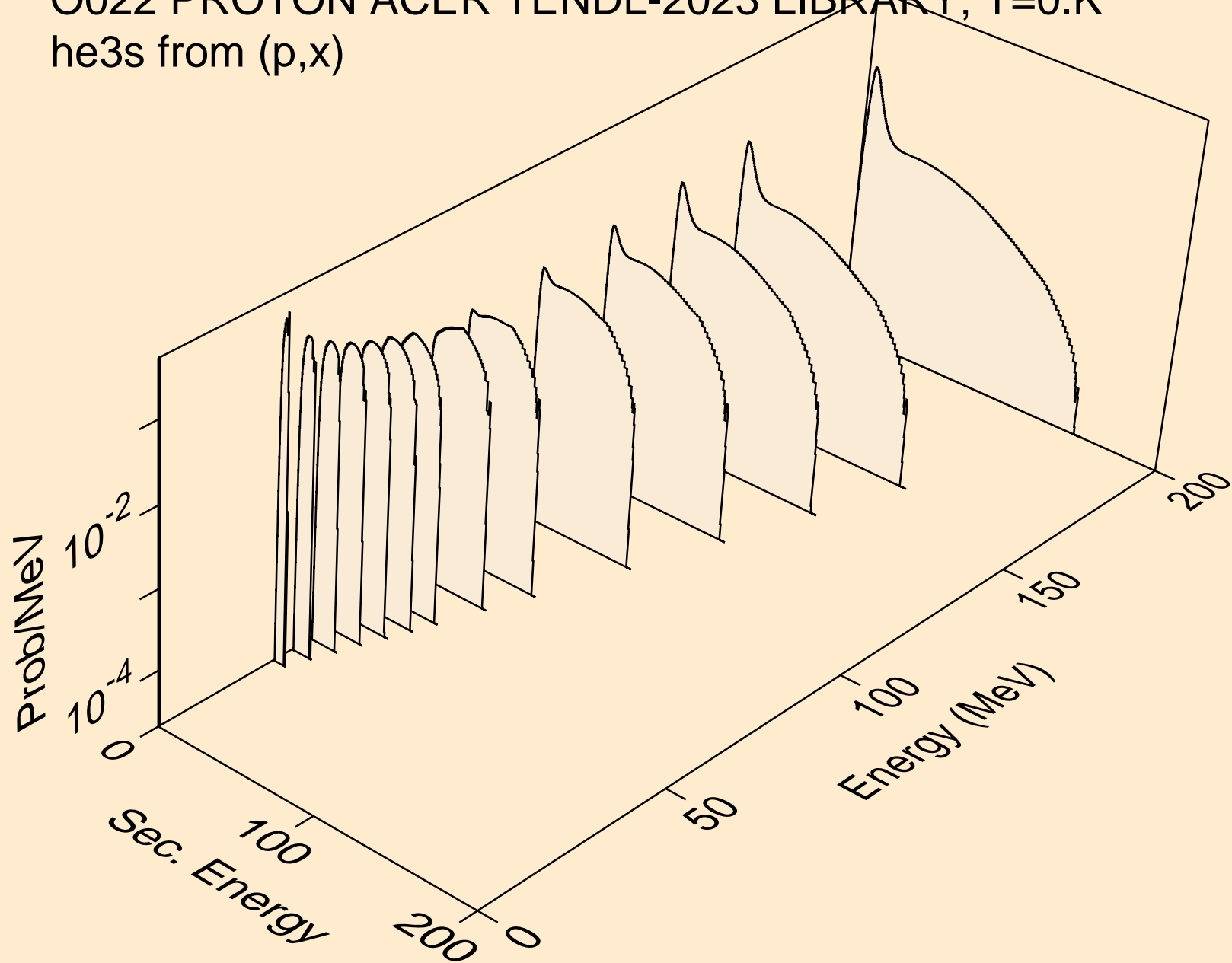


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tritons from (p,pt)

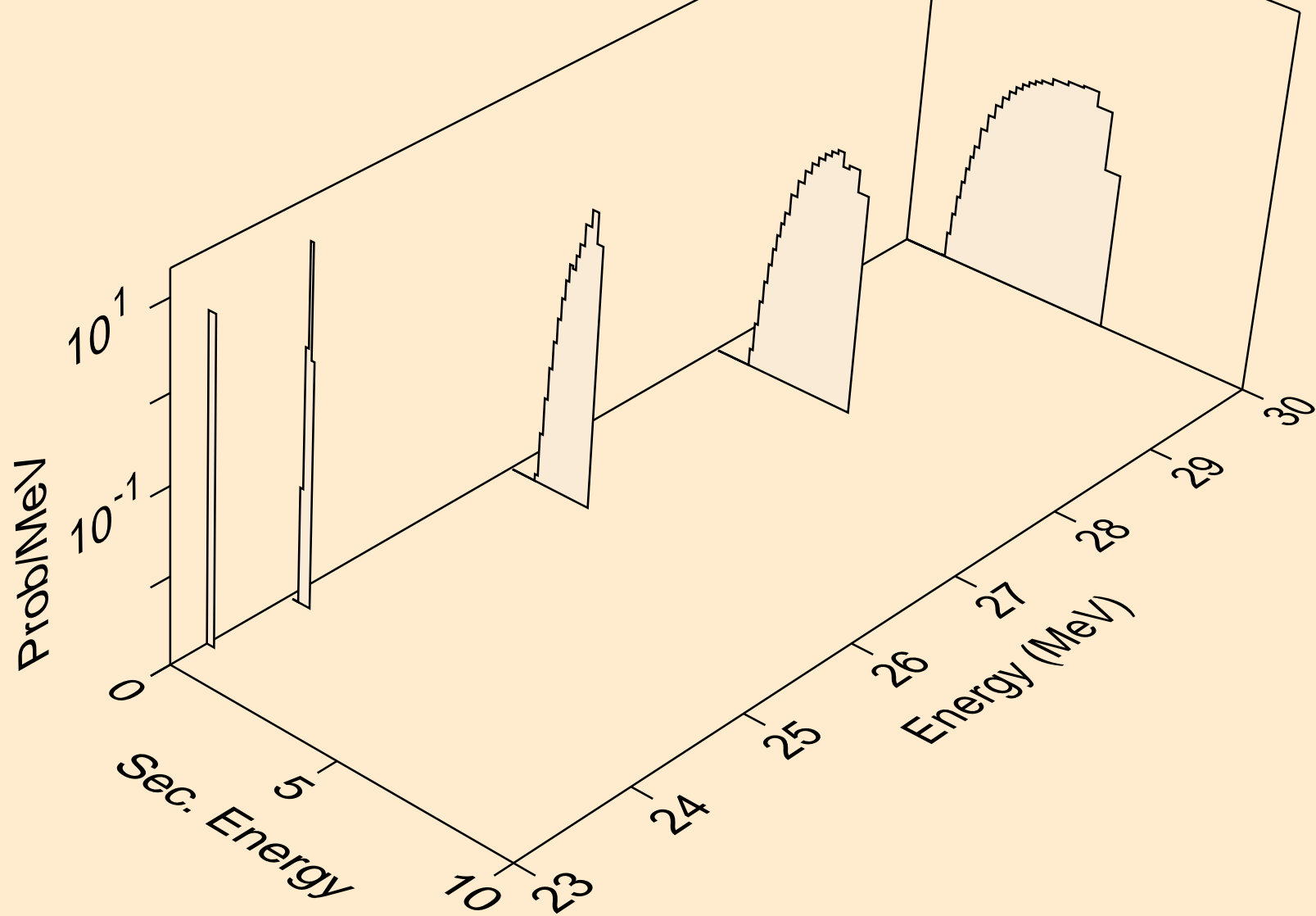




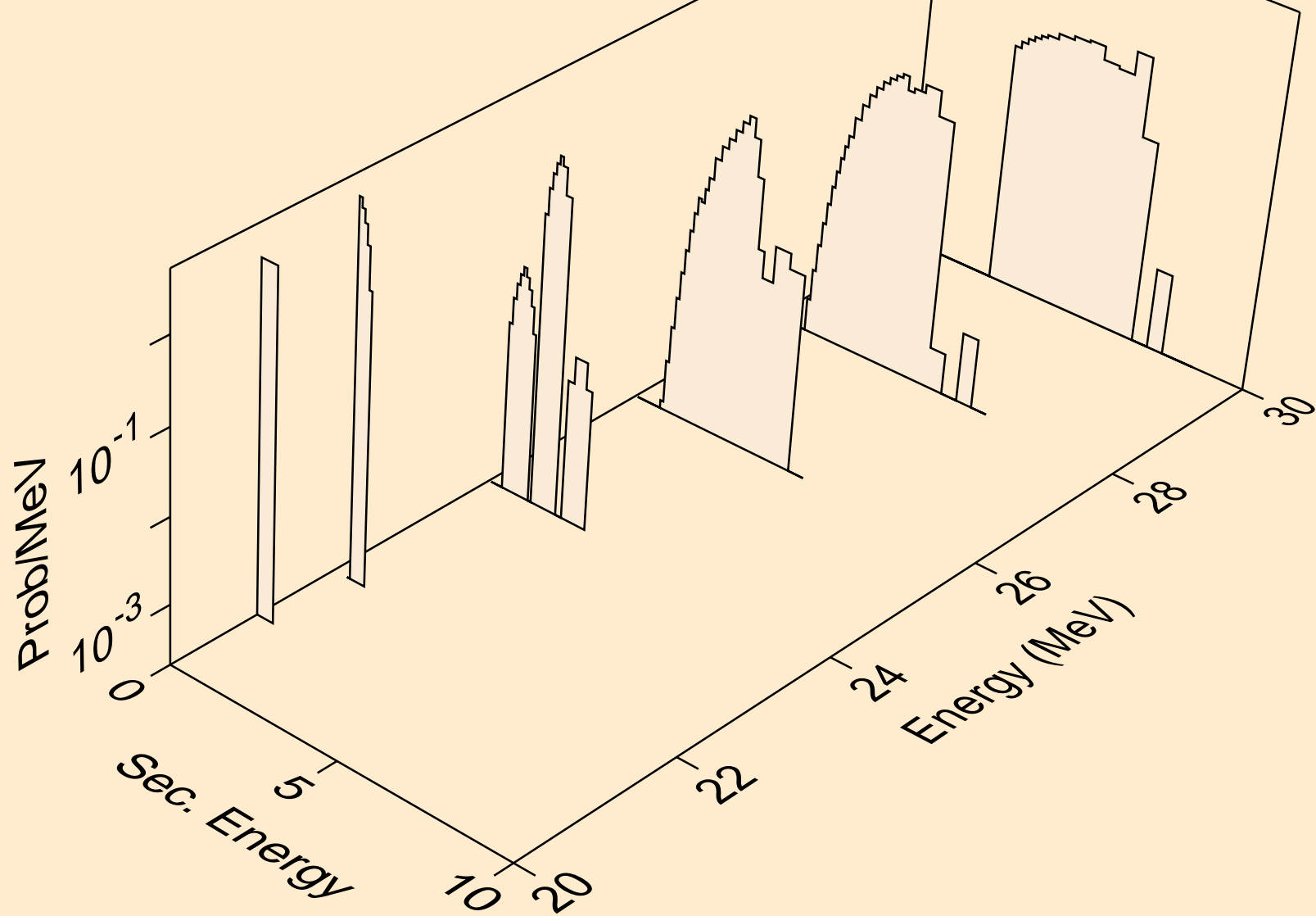
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



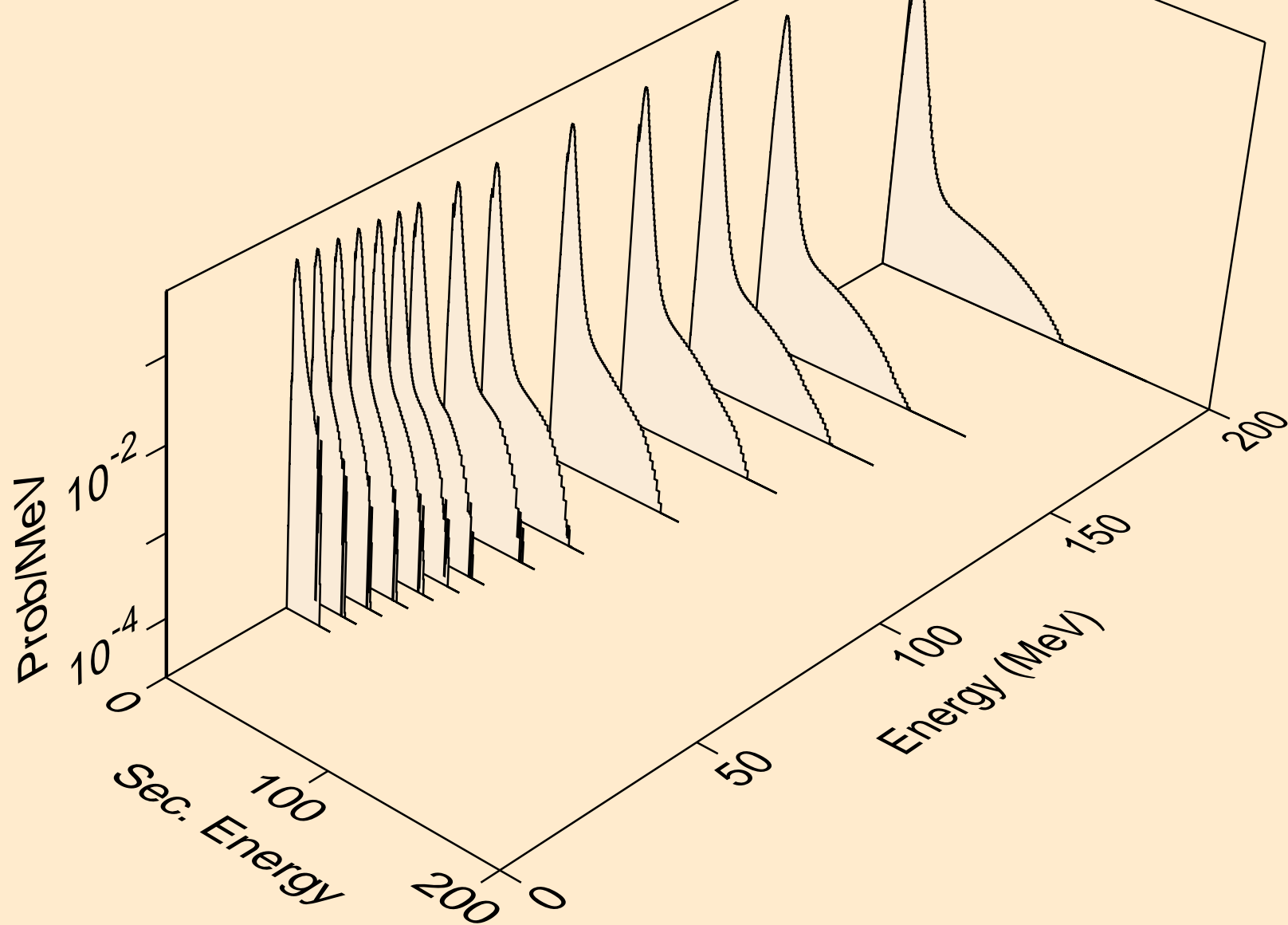
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



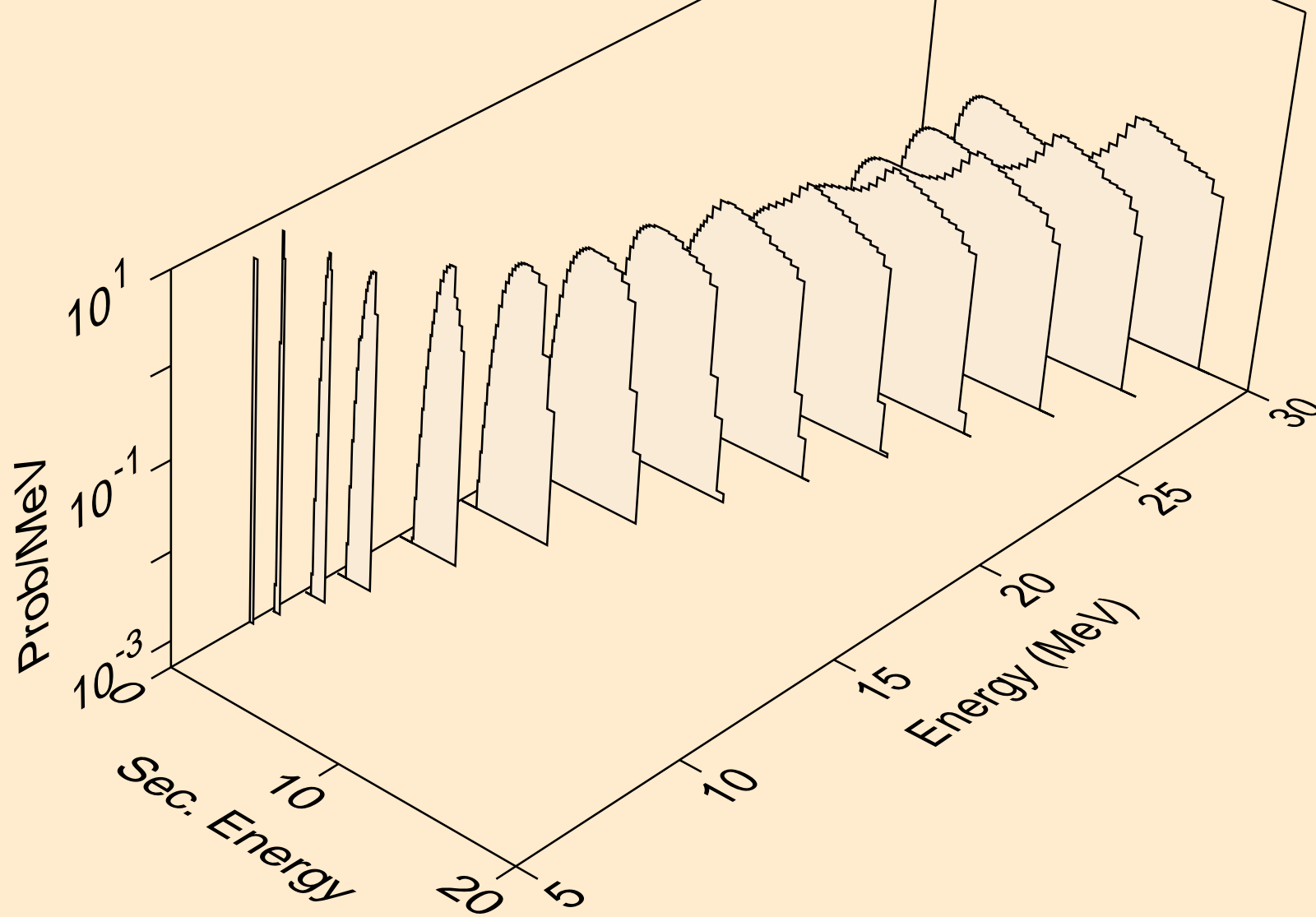
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he3s from (p,he3)



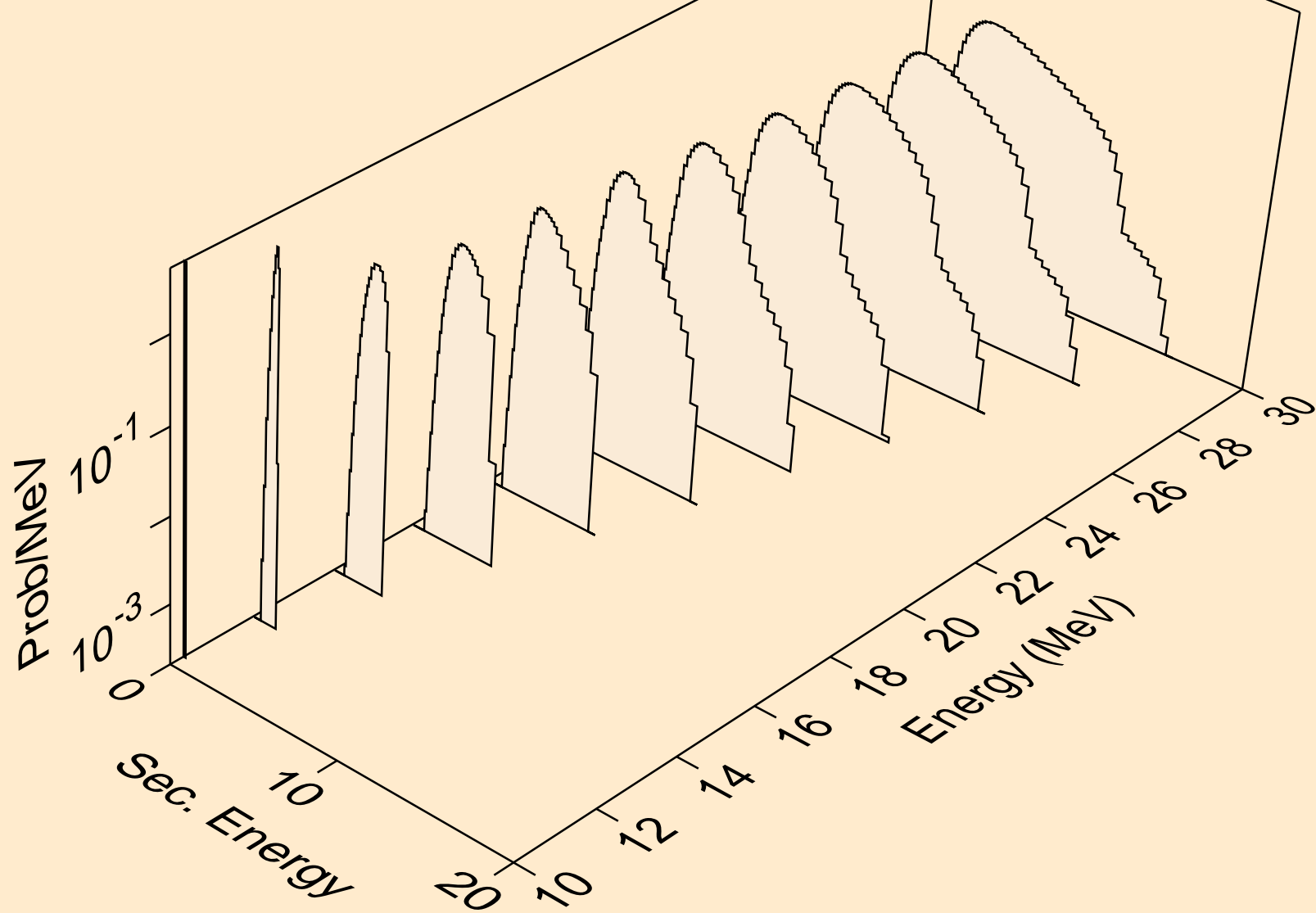
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)



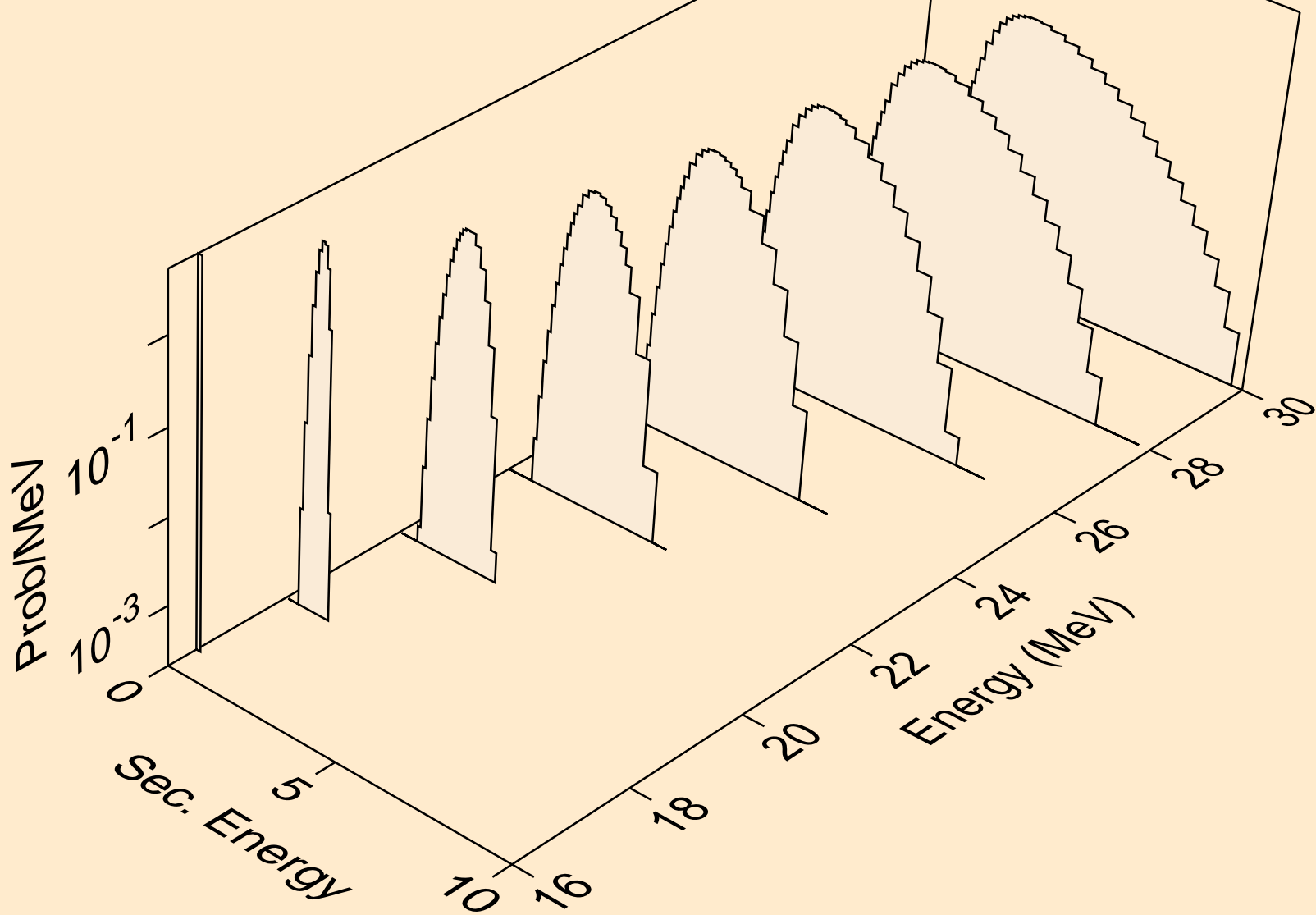
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



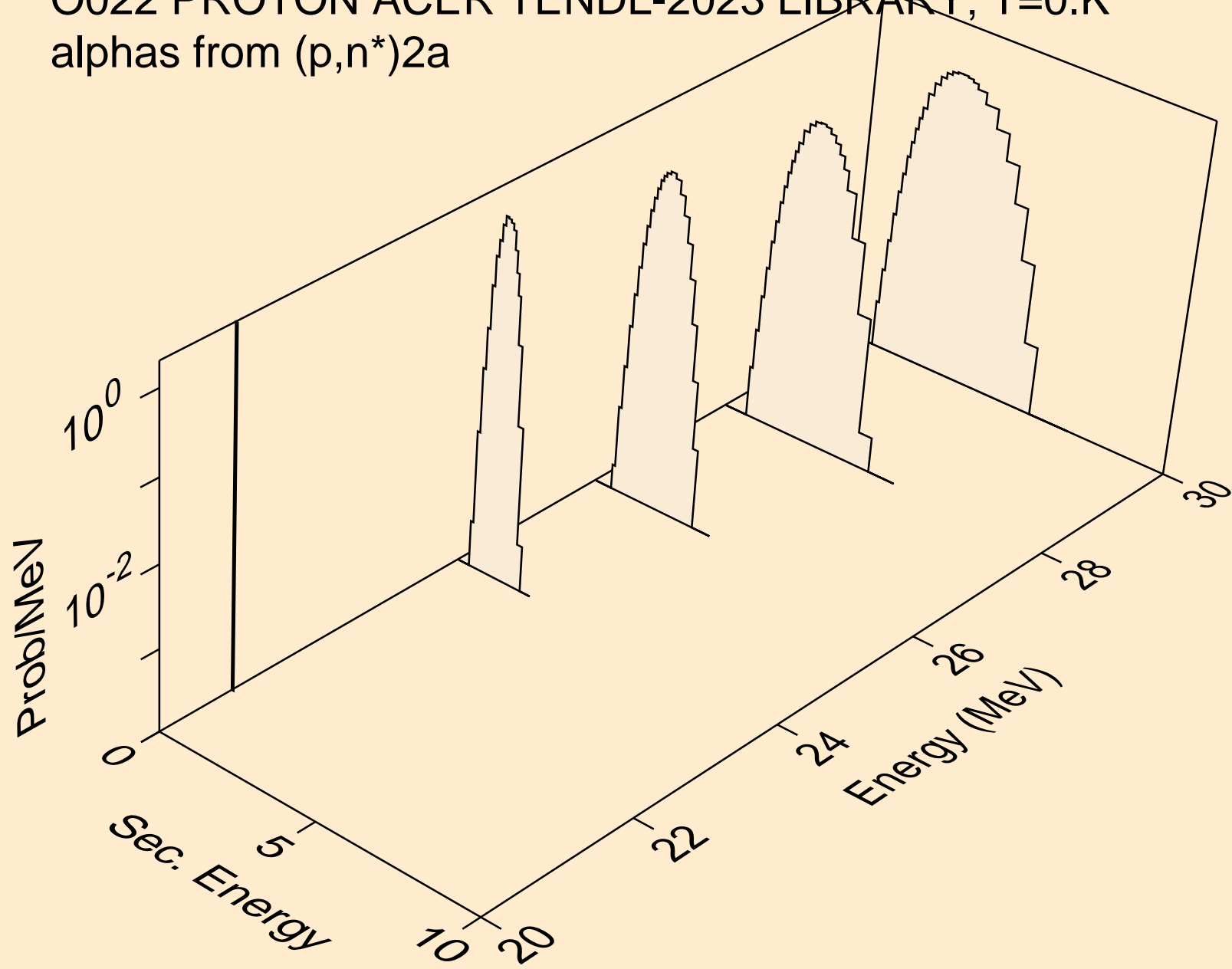
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3n)a

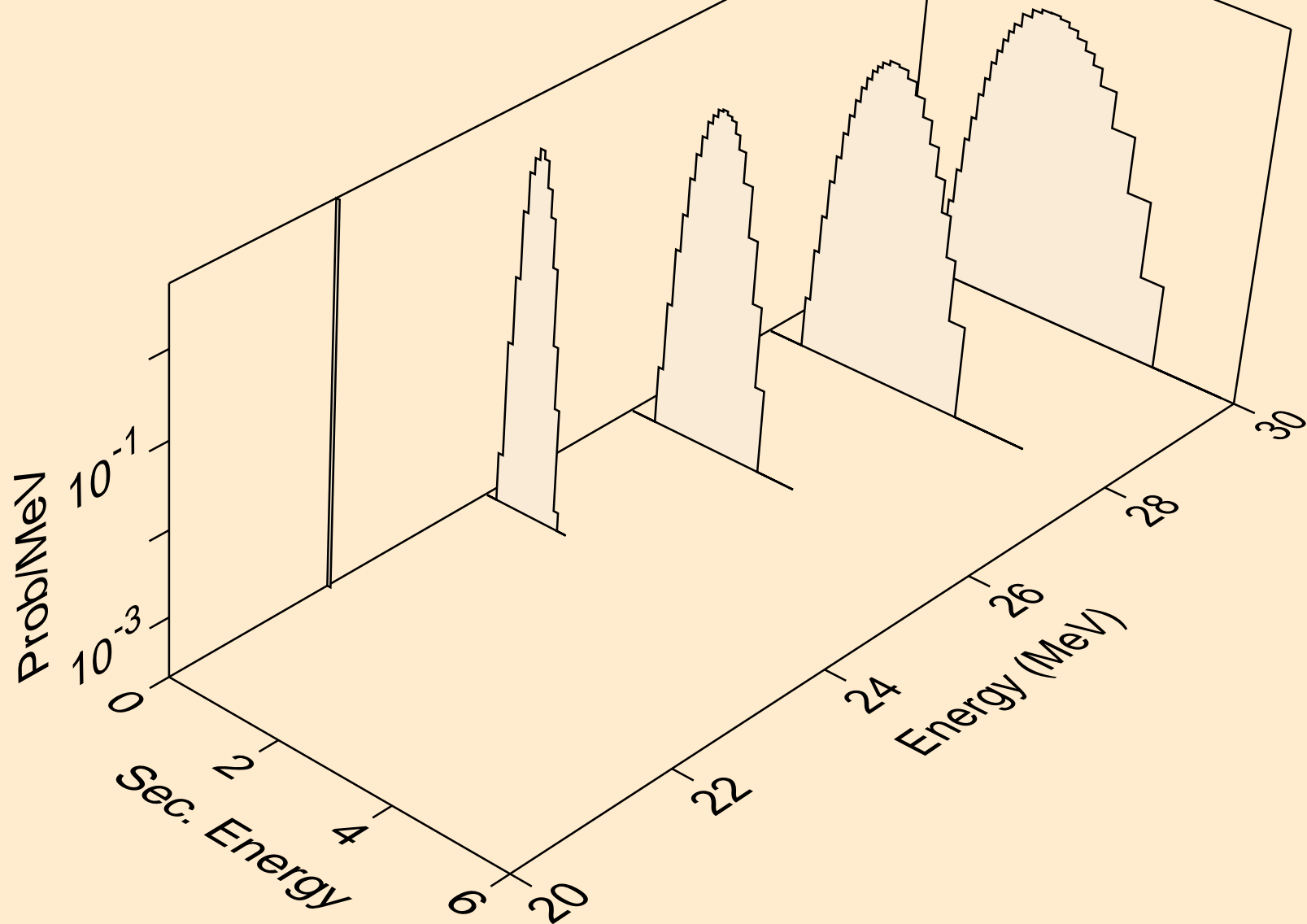


O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a

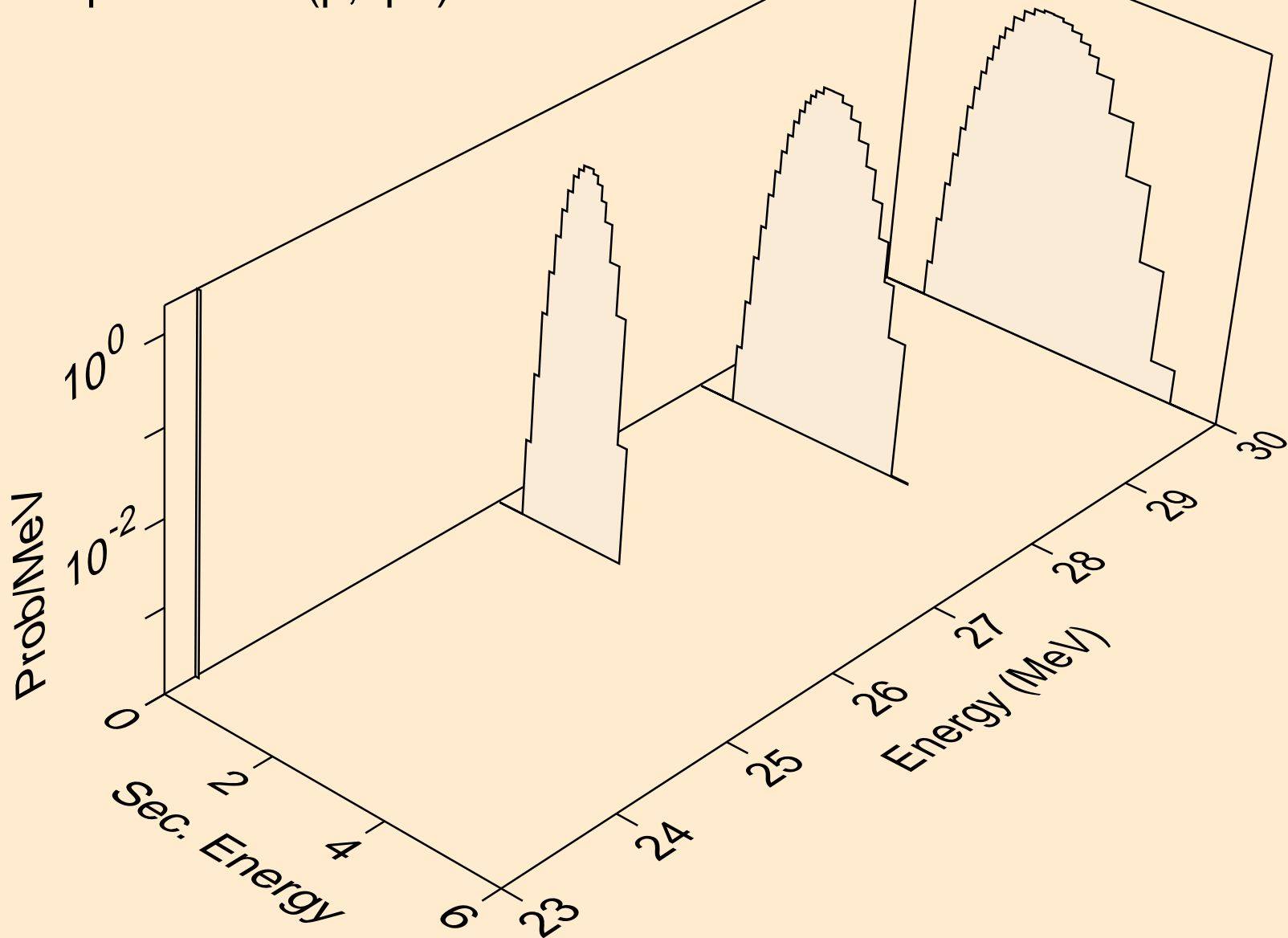




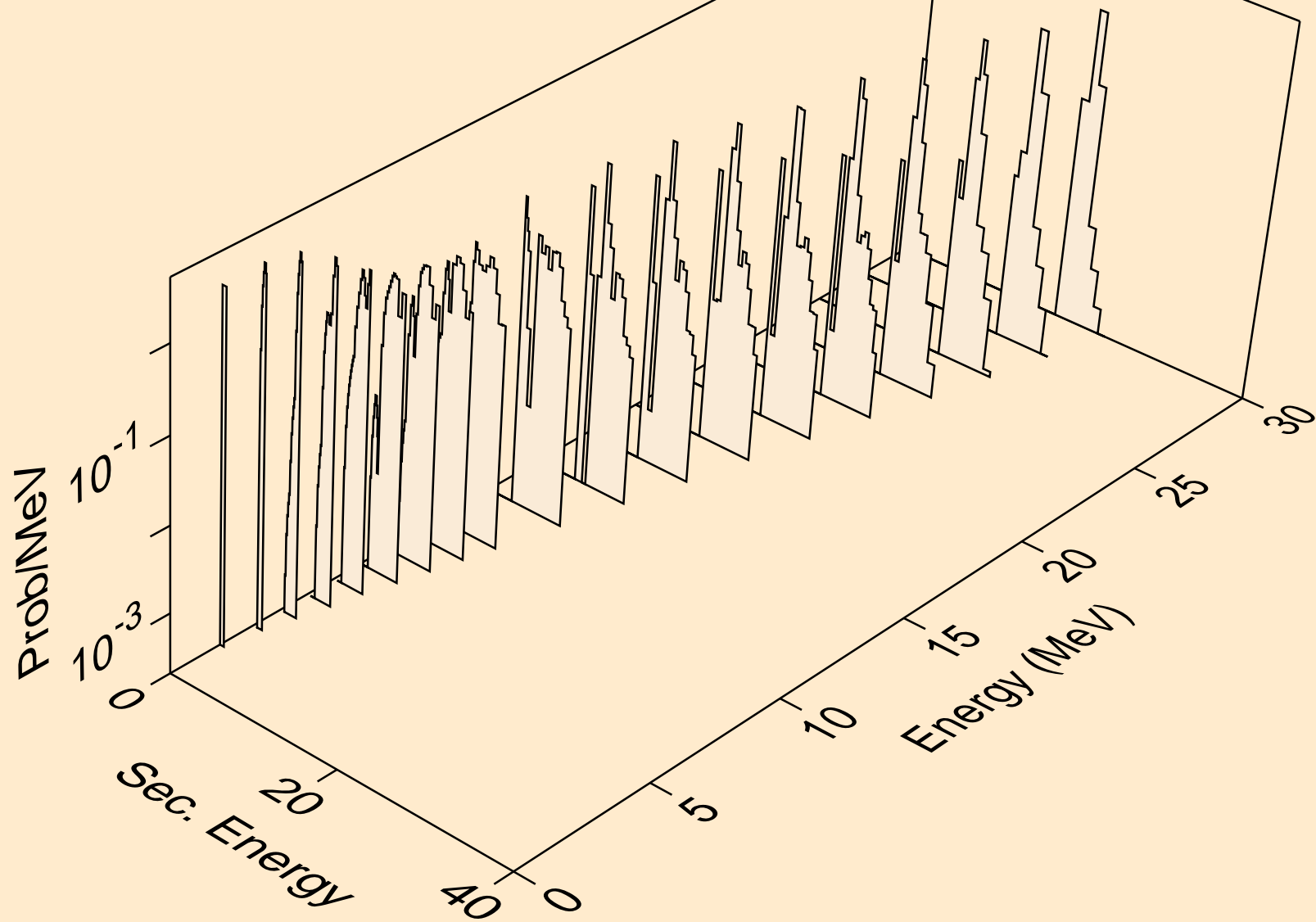
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)2a



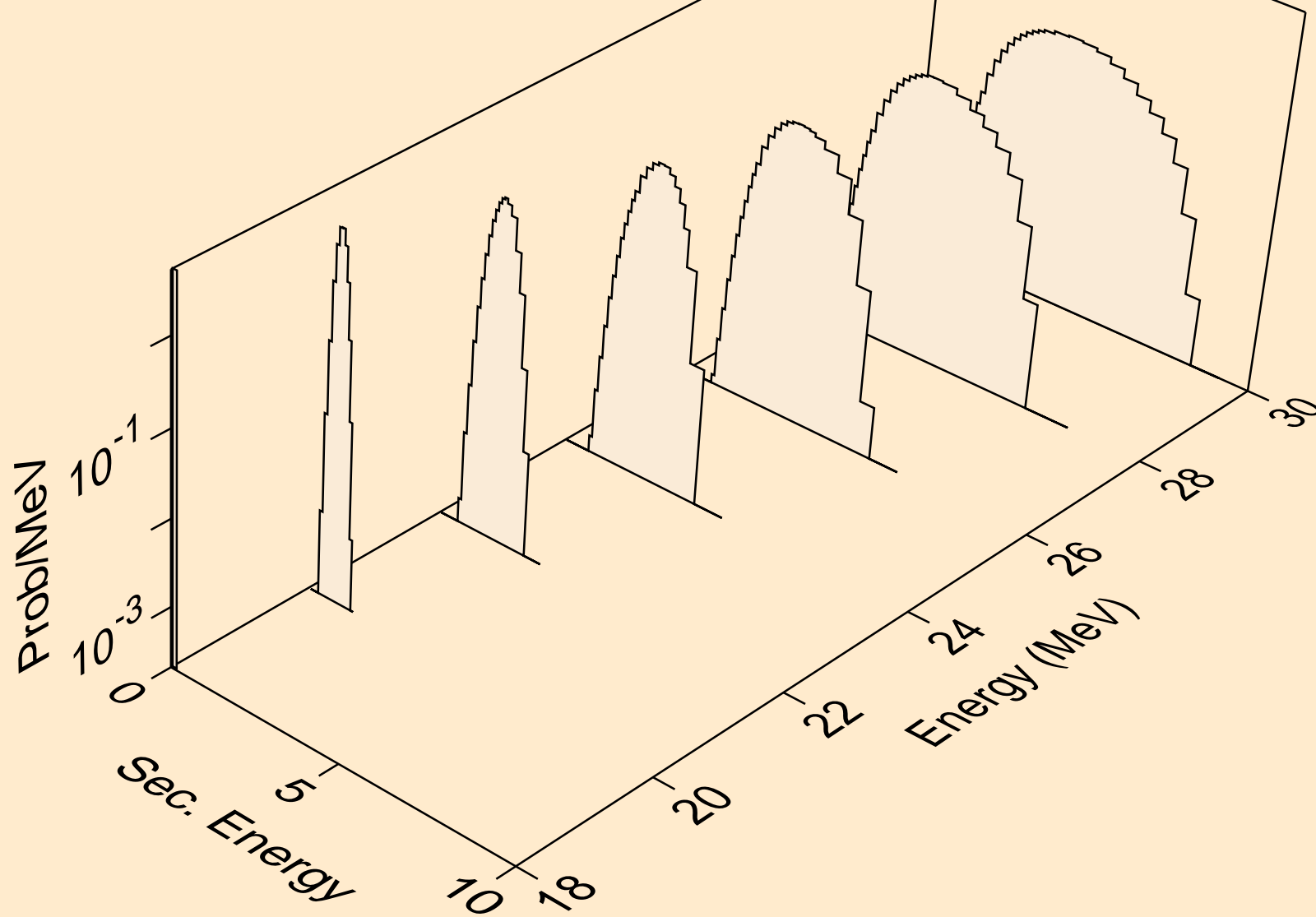
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alphas from (p,npa)



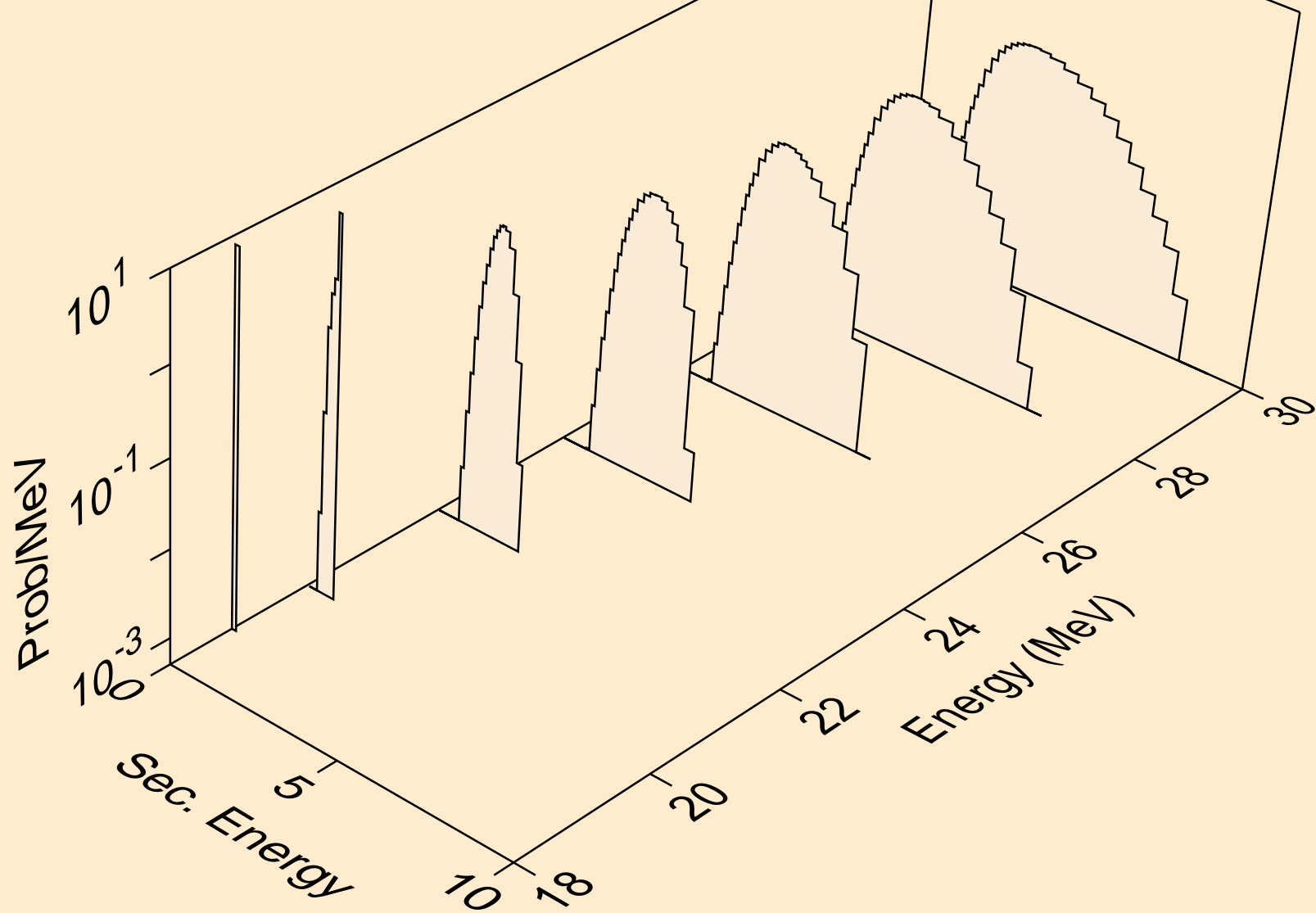
O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



O022 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

